Researcher information for Technology Consulting Program

(기술진단기획 러시아 전문가 소개서)

Available term for consultation		1 week		Available for trip to Korea	Yes				
Intellectual property Information		-							
Category of Research (Choose 1 or more)	ME (Material&Equipment), MP (Manufacturing&Production)								
Available field for consulting	 Career Path (Experience) (2019 ~ Current) TMK R&D/Deputy Head of the laboratory of corrosion protection and operational reliability: tests for corrosion resistance of metal by electrochemical methods, development of electrochemical methods corrosion testing of metal (2006 ~ 2019) Chelyabinsk Tube Rolling Plant / Head of corrosion and mechanical strength laboratory: organization of laboratory for corrosion testing of metal, conducting metal tests for resistance to sulfide stress cracking (NACE TM 0177, method A, C, D), hydrogen-induced cracking resistance (NACE TM0284) Conducting of general corrosion tests in different model environments. Consultation fields metal tests for resistance to sulfide stress cracking (NACE TM0177) of pipe material metal tests for resistance to general corrosion. Expected effect Training in testing procedures according to standards NACE TM0177, NACE TM0284 in different model environments Selection of conditions for testing 								
		Major			-				
	Ph.D	Research field			-				
		Dissertation			-				
Education		Major							
	MS	Research field South Ural State University, Metallurgical Department, Qualification : Engineering, physicochemical methods of research (1994-1999)							
		Dissertation							
	BS	Major			-				

Available term for consultation		1 week		Available for trip to Korea	Yes				
Intellectual property Information	Russia	Russian Patent No. 2443786, "Low Carbon Steel Treatment Method "							
Category of Research (Choose 1 or more)	ME (Material & Equipment), MP (Manufacturing & Production)								
Available field for consulting	 Career Path (Experience) (2018 – Current) TMK R&D, Deputy Head of Materials Science and Welding Laboratory (2015 - 2016) SIBUR, Project office "ZapSibNeftekhim", Senior materials engineer (2003 - 2015) Baikov Institute of Metallurgy and Materials Science, Laboratory of Materials Diagnostics, Senior Scientist. Consultation fields Fracture research of steels by fracture surface analysis (scanning electron microscopy, 3D- reconstruction of fracture surface) Metallic Materials selection for different applications Influence of structure and metallurgical quality on service live of materials Research Methods of metallic materials Expected effect Improve product quality and manufacturing yield in metallurgical manufacturing reduce loss and cost saving thru process optimization Right material selection 								
		Major	Metal	Science and He	at Treatment				
	Ph.D	Research field	Fracture mechanisms of low alloy steels by fracture surface analysis, rail steels, wheel steels, pipe steels.						
		Dissertation	by frac	Assessment of ductility heterogeneity of low alloy steels by fracture surface analysis by means with different dimensions (2D, 3D).					
Education		Major	Physics of metals						
	MS	Research field	Submicrocrystalline alloys by severe plastic deformation						
		Dissertation	Influence of submicrocrystalline structure obtained by equal channel angular pressing on mechanical properties low alloy steels						
	BS	Major	Physic	s of metals					

Available term for consultation		1 week		Available for trip to Korea	Yes				
Intellectual property Information		atent No. 2520275 , Pipe threaded connection and method for its implementation"							
Category of Research (Choose 1 or more)	ME (M	ME (Material & Equipment)							
Available field for consulting	- (2 - S g - (2 - M - (2 - M - C - (2 - T - T - D	cientific research reases and polym 2013 - 2016) Juni Aterial Area: Participation in eliminating the of OCTG pipes. Development of samples during Development of equipment 2016 - 2019) Rese Aterial Area: Development of Development of rolling tool in an Equipment Area: Development of rolling tool in an Equipment Area: Developed equi rolling tool in an Area: Developed equi rolling tool in an Area	oratory of in the finer thread or Reset the deve use of g f techno f equipm testing f ts own earch As f threade f techno n industr ipment fin industr ead of th TMK R& ds erial and r-resista ew device	of technological eld of high temp aded coatings. archer at the TM elopment of a per rease during tra- logy for coating nent for controlli according to NA algorithm and of ssociate at the ⁻ ed polymer coat logy for local ch ial environment or applying chro ial environment or applying chro ial environment of D Center in Sko l organization of nt and conserva- es for research	olymer coating for threads, ansportation, storage and operation deposition and polymerization. ng the time of destruction of ACE TM 0177. control program for autoclave TMK R&D Center: ting technology prome plating of the surface of a ome coating to the surface of a ome coating to the surface of a f Physical and Chemical Methods olkovo				
Education	MS	Major MS Research field		al engineer al chemistry					
		Dissertation	Phase transformations during oxidation and reduction of fayalite						

Available term for		1 week		Available for	Yes			
consultation Intellectual				trip to Korea				
property Information	More than 10 patents in the field of materials for oil pumps and test benches							
Category of Research (Choose 1 or more)	ME (Material & Equipment)							
Available field for consulting	 Career Path(Experience) (2003-august 2019) Head of materials and technology Department in Borets company. (Oil production equipment development center) (August 2019- current) Head of the laboratory of corrosion protection and operational reliability of scientific and technical center "TMK" Consultation fields Development of new promising materials for oil production equipment (motor, pump, the input module, the gas separator and others) including for complicated operating conditions; Bench tests of new products; Revision analysis of equipment; Acceptance tests; Support of new products and controlled operation; Preparation of expert opinions in the field of materials and tests Certification Effective leadership training ("Mercury international") Expected effect Selection of materials for operation in severe conditions Methods of protection of materials (including coating and others) Methods of testing of operational properties of materials 							
		Major			urgy, composite materials, and alloys institute			
	Ph.D	Research field	Hard w	Hard wear-resistant coating, film				
Education		Dissertation		Development of thermos-reactive surface hardening method				
		Major	Powder metallurgy, composite materials, coatings.					
	MS	Research field	The methods of coating, hard alloys					
		Dissertation	Therm	osetting method	s of surface hardening			

Available term for consultation	1 week	Available for trip to Korea	Yes						
	• Continuous rolling method and continuous multi-stand mill for its implementation								
	(RU2614974)								
	 SoftWare: TPAtex – FQM (RU2018665514) 								
	 Mandrel position (RU201961 	6594)							
	o DigitMill (RU2019666493)								
	o EX-pam (RU2016662673)								
Intellectual	 The software package for de 	etermining the serv	vice life of the bandage of the wheelset						
property Information	of an electric locomotive (RL	J2013614473)							
momaton	 Software package for determ 	nining the technolo	ogical parameters of the process of						
	rolling shells on the mill FQN	1 (RU2013618794)						
	 "Sobol`" program for the auto 	omated calculatior	n of the geometric dimensions of hot-						
	pressed pipes (RU20176169	980)							
	• The "TMK-IRS" program for	the automated cal	culation of operational parameters of						
	hot-pressed pipes with screw	v ribbing of the inn	ner surface (RU2018612109)						
Category of Research (Choose 1 or more)	IT(Information Technology), ME(Material&Equipment), MP(Manufacturing&Production)								
	1. Career Path(Experience	e)							
	 (2014 ~ Current) Deputy Head of the Digital Technologies Laboratory / Deputy head of laboratory: development digital twin of the rolling mill (process); (2012 ~ 2019) Laboratory of modeling of technological processes of JSC 								
Available field for consulting	"RosNITI" ("Russian Rese researcher-researcher - h processes, technological using software products a of new software products, conditions (programming analysis of technological r new continuous mill FQM category High Collapse; d resistance to crushing of p SOFTWARE for calculatio	earch Institute of ead of the labora equipment and c nd installations f their debugging language Delphi nodes of deform development of evelopment of n bipes; development on of technologic uses of prematu	Pipe Production")/ engineer-Junior atory: modeling of technological operating conditions of products for physical modeling; development , testing and adaptation to real , C# and markup language HTML); ation during the installation of a f methods of testing of pipes of neasures to increase the level of ent of mathematical model and cal parameters of reduction of ire failure of railway locomotive						
	2. Consultation fields								
	 Modeling of materials processing pressure using finite element method with the use of specialized software, the simulation of the process operation by the finite element method (strength, thermal fatigue calculations); 								
	- Analysis and optimization	of continuous pi	pe rolling technology;						
	- Technologies of digitalization of metallurgical production.								
	2 Doloto Notice diter								
	 3. Relate Networking Member of the editorial Boseries 	pard of the journ	al " Bulletin of SUSU. Metallurgy						

	 4. Expected effect To make modeling of metal forming before introduction of new technologies; search of the reasons of formation of defects, definition of technological parameters of process of metal forming by modeling by a finite element method. 					
		Major	Metal forming			
	Ph.D	Research field	Reduction mill, seamless pipes			
		Dissertation	Improving the efficiency of manufacturing hot-deformed pipes based on physical and mathematical modeling of the reduction process			
Education	MS	Major	Metallurgy			
		Research field	Wire production			
	Dissertation		Research of roller dies and development of a new design of roller dies for drawing titanium wire			
	BS	Major	Engineering and technology			

Available term for consultation		1 week		Available for trip to Korea	Yes				
Intellectual property Information	Patent No. 2680457, "High-strength oil-grade pipe in cold-resistant design"								
Category of Research (Choose 1 or more)	NT(Nano Technology), ME(Material&Equipment), MP(Manufacturing&Production)								
Available field for consulting	 Career Path(Experience) (2004-2019) Russian Research Institute of the Tube & Pipe Industries (2019 - present) TMK R&D Center in Skolkovo Consultation fields Optimization and development of new modes of heat treatment of pipes. Development of mechanisms and methods for improving the Physicomechanical, technological and operational properties of pipe metal. Examination of the causes of defects in hot and cold deformed pipes and premature failure of pipes. Carrying out metallographic studies in accordance with the requirements of normative and technical documentation. Determination of the corrosion characteristics of metal pipes for compliance with the requirements of regulatory documentation in various environments, including hydrogen sulfide (NACE MR0175/ ISO 15156). Investigation of factors affecting the corrosion resistance of steels, including in real conditions. Investigation of the resistance of pipe metal to local corrosion. Participation in full-scale (bypass) tests in order to adjust the composition, technology and processing of pipe steels. Recommendations on the selection of materials for specific operating conditions. Expected effect Selection of pipe material to obtain the required properties and operating conditions. 								
	Ph.D	Major Research field		Materials Science Metal science and solid state physics					
Education		Dissertation	Study of the structure and properties of high-strength ferritic-bainitic steels designed for high-pressure trunk pipelines						
		Major	Physic	al engineer					
	MS	Research field	Metal science and solid state physics						
		Dissertation	Dissertation Improvement of thread rolling tool production tech						

Available term for consultation		1-2 week		ailable for to Korea	Yes				
Intellectual property Information	-								
Category of Research (Choose 1 or more)	ME(Ma	ME(Material&Equipment), MP(Manufacturing&Production), NT(Nano Technology)							
Available field for consulting	- ((5 n 5 - () - F 0 - F 0 - F 0 - F 0 - F 0 - A 3. - F	 Career Path(Experience) (2019 ~ Current) Material Science and Welding Laboratory in TMK R&D / Senior Research Engineer : Research in microalloyed low-carbon steel manufacture for critical offshore oil and gas pipelines (for reel-laying and sour service) (2015 ~ 2019) Metal Science and Heat Treatment Laboratory in TMK RosNITI / Senior Engineer : Research in microalloyed low-carbon steel manufacture for critical offshore pipelines. Research in aqueous polymer quenchants application for gas cylinders and tool joint heat treatment Consultation fields Full-scale and small-scale mechanical and corrosion testing of materials for critical offshore oil and gas pipelines Effect of micro- and nanostructure on operational (including corrosive) properties of bainitic steels Application of alternative liquid quenchants for heat treatment Expected effect Reduce loss thru optimal test scheduling of material Right material selection for strain based and/or sour service steel line pipes 							
		Major	MSc, Sout	h Ural State	University, Chelyabinsk				
	MS	Research field	Material Science and Heat Treatment of Metals						
Education		Dissertation	"Research of Microstructure and Properties of Low- Carbon Steels for Reel-Laid Linepipes"						
Education	BS	Major	2) Universi Sofia, B participa	Kostanay State University, Kostanay, Kazakhstan University of Chemical Technology and Metallurgy, Sofia, Bulgaria (as an academic mobility program participant)					
		Research field	 Technological Machines and Equipment for Metal Working Material Science 						

Available term for consultation		1 week		Available for trip to Korea	Yes			
Intellectual property Information	o Eu o Pa as o Pa o Co	 Eurasian patent No.032251 "Caliber's System of Continuous Tube Mill" Patent RU No.2707052 "Method for continuous rolling of pipes and mandrel assembly for its implementation" Patent application RU No.019110232/02(019685) "Continuous pipe rolling method" Computer program RU No.2016662544 "Ovality2+" 						
Category of Research (Choose 1 or more)		rmation Technolo anufacturing&Pro						
Available field for consulting	- E) ar ge m - Se - O - Pi - M - Co - Q	 Career Path(Experience) Experience in the application of digital technologies in production (advanced analytics and artificial intelligence can be applied to large data sets to generate new insights and enable better decision making in predictive maintenance and quality management). Setting up industrial equipment using non-contact measuring 3D systems; Optimization of production processes; Precision pipe manufacturing; Mathematical modeling; Quality management in the production of seamless pipes; New roll design for seamless pipe production. 						
		Major		forming technolo				
	Ph.D	Research field	High-precision pipes, production, 3-roll Pipe Mill, optima solutions, Box-Wilson method					
Education	Education		Optimization of the process of continuous rolling of shells in order to increase the accuracy of hot-rolled seamless pipes					
		Major	Metal	Metal forming technology				
	MS	Research field Pro		roduction, optimization of the process, slip-line method				
		Dissertation		Development of high-quality rolled technology for large diameter pipes				
	BS	Major	Steel 7	Fechnology				

	Experts in Science and Technology. Since 2016, he has become Chairman of the Committee for Technical Regulation of NP "MON" - Rusnano.			
		Major	candidate of technical sciences.	
	Ph.D	Research field	aerospace field	
		Dissertation	Development of new materials and coatings for the space industry	
	MS	Major	Member of the Russian Academy of Cosmonautics	
Education		Research field	innovative development of the International Association of Space Participants	
		Dissertation	Author (co-author) of 47 patents of the Russian Federation and foreign countries.	
	BS	Major	Chairman of the Board of Directors of RAM LLC. Creation of an industrial complex for applying metal- diamond coatings with a nanocrystalline structure on products operating under extreme operating conditions "	

Available term for consultation		1~1.5 week		Available for trip to Korea	Yes		
Intellectual property Information	 APPARATUS AND METHOD FOR PROVIDING VEHICULAR POSITIONING PCT RU 2016/000589 ,(Tatarnikov D.V., Edelman L., Pimenov A.A., Smirnov M.N., Penkrat N.A.) Algorithms Library for objects recognition 2017610528, request 201619919, date 22.09.2016 (Ufnarovkii V.V., Smirnov M.N., Fedorenko S.I., Pimenov A.A.) Apparatus and method of large scenes visualization 2606875, request 20151001179, 16.01.2015 Ufnarovkii V.V., Smirnov M.N., Fedorenko S.I., Pimenov A.A, Penkrat N.A., Gorilovsky A.A., Kocherizhkin V.A., Bogdanuik I.A., Bocharov E.I. Vizimapping, 201466255, request 2014617165 from 22.07.2014 (Ufnarovkii V.V., Smirnov M.N.) 						
Category of Research (Choose 1 or more)	IT(Information Technology)						
Available field for consulting	 R&D projects in Computer Vision area R&D projects in following areas: industry safety, computer vision in digital medicine, computer vision in automotive, AR/VR applications, CNN. 						
		Major			-		
	Ph.D	Research field			-		
		Dissertation		-			
Education		Major	Math	nematics			
	MS	Research field So		Software Engineering			
		Dissertation	Processor IP-core development for FPGA design				
	BS	Major			-		

Available term for consultation		Available for rip to Korea	Yes				
Intellectual property Information		-					
Category of Research (Choose 1 or more)	Production), Mobile Devices, Certification, Import						
	1. Career path(Experience)						
	- (August 2013 — October 20 Specialist / Technical Produ		Electronics, Senior Certification				
	declarations of conformity, o	certificates of	for the certificates of compliance, state registration, acts of other relevant to product standards				
	 Participation in certification to Voltage Equipment, Radio F 	•	lectromagnetic Compatibility, Low c.);				
	- Proceeded tenders for certif	ication service	es;				
			rocess of in-time documents iments and databases up-to-date;				
	 Communication with certification agencies, government institutes and appropriate ministries (FSB, Federal Customs Service, Ministry of Communication, Ministry of Industry and Trade, etc.); 						
	- Inquired relevant information and documents (product data, test reports, descriptions, etc.) from the manufactures and company business units;						
	 Reviewed and analyzed national and EAEU legislation and regulatory documentation in appliances/network/frequency/safety/batteries/packaging areas; distributed information to all involved people; 						
Available field for consulting	 Checked translation correctness for marking text creation; makes sure all texts, labels and stickers are in line with the national/EAEU regulation; 						
	- Assisted in import process problem solving related with product compliance;						
	 Deals with quality & standards claims and requests from customers, end consumers (warranty claims) and authorities in Russia; initiated and followed actions on correction 						
	 Participates in investigations regarding product safety and compliance initiatives; 						
	 and ensures information and customers, end consumers Proceeded factories (Russia comply with Quality Manage Negotiation with mobile ope 5G, VoLTE, VoWiFi, RCS, 0 	sure that documents are in place with the Russian (EAEU) regulations uses information and documents are distributed properly to the ners, end consumers and authorities. eded factories (Russia, Korea, Vietnam) inspections and verifying it's with Quality Management Systems (ISO 9001) ation with mobile operators about launching new technologies (4G, pLTE, VoWiFi, RCS, OMC, etc) g of Android and Tizen devices (QA)					
	2. Consultation fields						
	- Certification of products						
	- Comply with EAEU and Russian	legislation					
	- Certification tests						
	- Quality assurance - Marking and labeling						

	 Mobile Network and Communications New Technologies (5G, AR, VR, etc.) 3. Relate Networking Lots of contacts with different certification agencies, testing laboratories, Ministry of Communication, Federal Customs Service, Federal Security Service 4. Expected effect Provide trouble-free import and sell processes in accordance with EAEU and Russian law and regalements Improve product quality by process optimizing Import fee and additional expenses cost saving 				
		Major	Electronical Engineering at Bauman Moscow State Technical University		
	MS	Research field	Vacuum Technologies		
		Dissertation	System for diagnosing the operability parameters of the elements of vacuum equipment		
Education		Major	Management		
	MS	Research field	Human Resources		
		Dissertation	Innovative technologies for the labor activity assessment in a modern organization		

Available for trip to Korea	Ye	s (up to 2 weeks)		Intellectual property Information	Berezkin laroslav Vyacheslavovich International Patent № A61B 17/58 (2006.01) Request № PCT/RU2018/000020 Publication № WO/2019/035734 Date: 21.02.2019	
Category of Research (by 6T)			E	3T (Biology Technolog	у)	
Available field for consulting	 PelvicFractures is a project of Doctive LLC in collaboration with the specialized research centres of Russia, Venezuela, Italy and Germany. We are focusing on the development of new surgical techniques and new devices for fixation of unstable pelvic ring fractures. Pu-Lock[™] is a solution for Interlocking intramedullary nailing for pubic rami fractures We made a number of comparative biomechanical tests (torsion and cyclic bending of the pelvic fracture model of the bone synthesized plate, cannulated screw and nail). We simulated cyclic loads on the pelvis model similar to normal walking. The first patient has been operated in the end of 2016. About 400 Pu-Lock[™] nails have already been installed. 					
	Major Orthopedic Trauma					
	Ph.D Research field Pelvic Fractures					
		Dissertation		«Closed intramedullary osteosynthesis with locking nails in pubic bone fractures» [in Russian]		
	MS	Major	Doctor of medicine			

Available term for consultation		2 weeks		Available for trip to Korea	Yes		
Intellectual property Information	 Methods of double-sided electrochemical dimensional processing of parts. Methods of electrochemical processing of surfaces of small curvature with a sectional electrode-tool and a device for its implementation. Methods of manufacturing a brush seal. A device for measuring the angle of inclination. Devices for measuring the small displacements of an object. Devices for determining the position of an aircrafts. 						
Category of Research (Choose 1 or more)	ME (Ma	aterial&Equipmen	it), Tech	nology transfer,	Patents management		
Available field for consulting	 I am the founder of an Accelerator for Technological Startups Guide to Innovations (way2innovations.ru) from 2018. Today, my platform is a multidisciplinary infrastructure consulting and IT company that supports and develops innovative technology projects and startups, organizes and conducts regional, corporate and university acceleration and educational programs and events throughout the country - in Moscow, St. Petersburg, Yekaterinburg, Tomsk, Rostov-on-Don, Ufa, Samara, Ulyanovsk, Penza, Barnaul, Tyumen, Saransk, Sterlitamak, Magadan and other Russian cities, as well as abroad - in South Korea, Israel, Germany and Turkey. Since 2015, more than 300 technology entrepreneurs and startups have taken part in various acceleration programs, and more than 3,000 people have participated in educational events. The competitive advantages of my platform are the highest professionalism of the team and a responsible approach to the provision of services, a powerful digital platform and various digital services of its own design for managing acceleration programs, an author's animation course on technological entrepreneurship and innovation, as well as a strong composition of speakers, scientific, technical and business experts, mentors and trackers from all over the country. Consulting fields: Patent management, technology transfer, project management, technology sourcing (materials etc.) (2016 - 2018) Project Manager, Agency for Strategic Initiatives (ASI) (2014 - 2016) Head of Intellectual Assets, OAO Poligon (2013 - 2014) Head of Technical Department, OAO Poligon 						
	Major Aviation Engineering at Ufa State Aviation Technical University Ph.D Research field Thermal, electric propulsion engines and power plant						
		Dissertation	aircraft Therma aircraft	al, electric propu	lsion engines and power plants of		
Education	MajorAviation Engineering at Ufa State Aviation Technical UniversityMSResearch fieldMachines and technologies for highly efficient material processing processes						
	Dissertation		proces	sing processes	gies for highly efficient material		
	BS	Major	Aviatio Univers	• •	t Ufa State Aviation Technical		

Available term for consultation		Up to 1 week		Available for trip to Korea				Yes	
Intellectual property Information		- ·							
Category of Research (Choose 1 or more)	Electro Produc	nics Engineering tion)	g, IT	(Information	Тес	chnology),	MP	(Manufacturing	&
Available field for consulting	- (2019 - (2016 - (2013 yctpoй - (2013 Scienc - (2010 Depart 2. Cons - Electi - Hardy - Embe - Proto - Robo 3. Teac (2018 - of Phys (2016 - radio e	- 2013) Compute ment of Compute sultation fields ronic engineering ware developmen edded software de edded Linux typing tics ching and advisor - current) – Advisor sics and Technolo - current) – Teach ngineering - 2016) – Advisor	OOO « eer at (renboa r at Ins r Oper r Scien r Scien t velopm y expe or to the gy) her at N	Оптех» (<u>https</u> DOO «Bezkon <u>ird.com</u>) stitute of Contr rator at Mosco nce nent rience e MIPT robot f <i>I</i> oscow Institu	<u>s://op</u> ntakn rol S ow In ow In	oteh.ru) nie Ustroistv ciences of stitute of P stitute of P all team "S f Physics a	Russ hysic tarKl ⁻ nd Te	ian Academy of s and Technolog T" (Moscow Instit echnology: Basics	ute s of
		Major		blied Mathema			cs at l	Moscow Institute	of
Education	MS	Research field	Ele	ctronics Engin	neeri	ng			
		Dissertation							
	BS	Major		blied Mathema			cs at l	Moscow Institute	of

Available term for consultation	Up to	o 2 weeks		Available for trip to Korea	Yes
Intellectual property Information				-	
Category of Research (Choose 1 or more)		ormation Technolick & Communicati			ng & Production), Mobile Devices, cation
Available field for consulting	From 20 Technic - QA o local ne - Russi - VR/A - Globa and ne - Docu - Nego VoWiF - Nego VoWiF - Marke 2. Cons - Certific - VR/AF - Cloud - Quality - Mobile - New T 4. Relat - Lots o compar 5. Expe - Suppo - Improv	etwork operators; ian IT market analy R Project managen al services (applicat w function develop ments preparation f gaming solutions of tiation with mobile of i, RCS, OMC, etc) eting promotions cro ultation fields cation of products gaming y assurance e devices Network and Com rechnologies (5G, A e Networking	pany r cluding s sis and s nent for E ions) loca ment bas for new p devlopme operators eation for eation for municatia R, VR, e in Russia encies.	martphones, table trategy creation fo 32C and B2B; alization for local needs roducts certificatio ent in Russia; about launching r new services hig ons tc.) an network opera	on (EAC and DoC); new technologies (4G, 5G, VoLTE,
Education	MS	Major		nical Engineerin cal University	ng at Bauman Moscow State
		Research field	Radioe	lectronic device	S

Available term for consultation	Up to 4 weeks	Available for trip to Korea	Yes			
Intellectual property Information	-					
Category of Research (Choose 1 or more)	IT (Information Technology), So Product analytics	ftware Product	Management, Agile Implementation,			
Available field for consulting	 product metrics via user and market then developing new services and for (December 2017 — September 2017) Yandex (yandex.ru) Product Manager Performance-driven project stakeholders (20+). Excel in market distributed teams (10+ develope) Recognized for the implement and operational excellence; Mentored number of Yande management school; Exceeded company goals a products' requirements through roadmap, prioritizing backlog ar course of action. Achievements: Successfully launched Yands services from the scratch; Led, developed and released smart speaker, web services for services); Promoted as a manager of to ability to build productive relation and ecosystem of services for small Was one of the first employees to joe establishment from 10 to 200 people Elicited requirements, defining research and shaped roadmaps Successfully launched num operations and processes; Owned P&L models for all of Achievements: 	ng medical appoir ler ts, software engin t research, eliciting eatures or improvi 9) manager able to inaging both insou- ers in 4 different re entation of Agile point x employees and as a product mana executing user re and assessing all point dex Games service ed more than 20 p r Yandex Browser, 2 teams of develo tionships and stro minal) with an app businesses. bin the team and c e and 250 000 bus ed user stories via s for several comp ber of new produce companies' produce the big data market	eers to grow up the app's business and grequirements and users needs and ing current functionality. work with multiple clients and arce and outsource cross-functional egions simultaniously); ractices to enhance teams' productivity students at Yandex product ager by defining clients' needs and search and cjm, shaping product ossible outcomes to choose the best e and several internal rojects (services for Yandex Station , Internetometr, Petfinder and internal opers with united scope of projects due ong judgment at critical junctures. plication marketplace (market.evotor.ru) ame along the path of company siness clients. a customer interviews, made market any's products; cts and services, incl. management of			

	D	N 4				
	Project	Manager	plananted by since a process (include veloping and prosting the			
			plemented business processes (incl. developing and meeting the developed a transparent system of efficiency analysis and			
	 Stellar negotiator with history of successful profitable arrangements, ability to attrikey clients and its further supervision; 					
			tem of sales analysis and customer actions' forecasting.			
			,			
/	Achieve					
	• key		ep and unique knowledge of ticketing operations as a result led s for FIFA Confederations Cup 2017, FIFA World Cup 2018.			
		2013 – October 20 Project Manager	14. Sochi 2014 Organizing Committee.			
	•		ntinuously assessed the implementation of the ticket sales strategy, sales plans;			
	∙ ∙ full s	Carried out in-dept stadia and revenue	th analysis and forecasting within the ticketing program to achieve goals;			
	 Supervised the development and execution of the Fan2fan – online platform for verified ticket resale. 					
		ultation fields	amanti			
		are product manage mplementation;	ement,			
			es at the software development teams;			
			s, metrics, dashboards);			
-	- User r	esearch, customer	interviews, customer journey maps.			
	4. Relat	e Networking				
-	- Lots of	f contacts with expe	erts from leading Russian it-companies			
		cted effect				
			development process;			
		practices implement	duct analytics, metrics, dasboards. Creating data-driven style of			
5	software development					
	 Consultations about different methods of user research and their application other consultations about software product management 					
		Major	Electronical Engineering at Bauman Moscow State Technical University			
Education	MS	Research field	Vacuum Technologies and Microelectronics			
		Dissertation	The Technology of forming nanostructured coatings in vacuum by thermal evaporation technique			

Available for trip to Korea	Yes		Intellectual property Information	Patent No. 2479384 A method of producing ceramic products with nanoscale structure		
Category of Research (by 6T)	NT(Nanc	Technology), ST(Space Technology)			
Available field for consulting	and Mate - ISMAN Institute united a their theo terms of reactions of phase product consider materials Institute Combina of the Ins Nowaday theoretic general t experime theory ar new cata new syst new experiment SHS pro SHS coal SHS join materials etc.	eys, R&D at ISMAN is going on along the following lines: cal models of structural macrokinetics theory of autowave and induction processes ental investigation of solid-flame combustion nd practice of chain reactions alysts and heterogeneous catalysis tems for combustion chemistry perimental techniques of external influences on SHS multicomponent systems oduction of powders, materials, and items; atings				
		Major		-		
	Ph.D	I liecorration	SHS EXTRUSION OF MU MATERIALS FOR ELECTI	- LTIFUNCTIONAL ELECTRODE RIC SPARK ALLOYING		
Education		Major		-		
	MS	Research field		-		
		Dissertation		-		
	BS	Major		-		

Available for trip to Korea	Yes		Intellectual property Information	-		
Category of Research (by 6T)	IT(I	IT(Information Technology), NT(Nano Technology), Technology for AgroTech,				
Available field for consulting	- - - - - # - M - - F - - F - -	Our innovative centers ultimately have a combination of IT and software engineers, scientists, researchers and technicians who carry out a full DSTU Research and Development strategy as part of global University Development Programme 2020. In addition to our R&D centers, we invest in partnerships with educational centers all over the world in order to create the next generation of world-class experts. We have established collaborative partnerships with universities worldwide, investing more than 100 000 € in recent years to support joint programmes at DSTU and partner HEIs. Active involvement in the work of R&D centers provides students a great chance to start their careers straight from the university and continue work in one of the R&D based partner companies. MEDIAPARK "SOUTH REGION – DSTU INDUSTRIAL COWORKING RUSSIAN-CHINESE CENTER FOR INNOVATIONS AND HIGH TECHNOLOGIES TRANSFER INTERNATIONAL EDUCATIONAL CENTER ARENA MULTIMEDIA ROBOTICS DESIGN AND ENGINEERING PARK "DSTU-ROBOTICS" INNOVATIVE TECHNOLOGICAL CENTER OF ENGINEERING EDUCATION 'MESO-BUREAU"				
		Major		-		
	Ph.D	Research field		-		
		Dissertation	The method of vibrational refinement of cylindrical by rolling (transporting) on a flat oscillating surface will lateral restrictions			
Education		Major		-		
	MS	Research field		-		
		Dissertation		-		
	BS	Major		-		

Available for trip to Korea	Yes			Intellectual property Information	METHOD FOR PRODUCING CARBON NANOTUBES BY GAS-PHASE CHEMICAL DEPOSITION A method of manufacturing a sealed product of carbon-silicon carbide material
Category of Research (by 6T)	NT(Nand	Technology), ST((Spac	e Technology)	
Available field for consulting	of techno ceramic and man The Insi antennas federal developr and pane IL-96-30 develope metallic I	esearch Institute of Composite Materials" specializes in research, development ologies and production of articles from composite materials based upon carbon, and polymeric matrices. At present the Institute is one of the leading designers nufacturers of composite articles. Attitute has mastered technology of manufacturing precise parabolic beam s of 5m diameter from polymeric composite materials. Within the frames of program on development of civil aviation equipment the research and ment work was carried out along with preparation for serial production of shells lels from composite materials for the ventilator duct of aircraft TU-204, TU-214, 10 and repair kit for the bottom part of jacket for TU 154 M. The Institute has ed the technology of manufacturing and winding load bearing shells onto sealed liner to withstand operational pressure up to 150 Atm. ments of "Ural Research Institute of Composite Materials" are confirmed by many and marked by celebrated awards of international exhibitions.			
		Major			-
	Ph.D	Research field			-
		Dissertation		HOD FOR PRODUCIN -PHASE CHEMICAL [NG CARBON NANOTUBES BY DEPOSITION
Education	Education Major -				
	MS	Research field			-
		Dissertation			-
	BS	Major			-

Available for trip to Korea	Yes		Intellectual property Information	30 patents. Patent No. 2501108 Electrical insulation composition.			
Category of Research (by 6T)	NT(Nano Technology),	, ET(Environment Technolo	ogy), ST(Space Technology)			
Available field for consulting	name «Fa — «Polyt design. » - Since 20 Research Physics a Research to enviror Developm and techr Research crystallog Physics o Thermal p Biodivers rational u Scientific Mathema Methods Medical a	 The Institute operates in the Kabardino-Balkarian State University since 1957, at first under the name «Faculty of Civil Engineering», from 1960 to 2015 — «Engineering Department», in 2015 — «Polytechnic Institute», and from 2016 years- «Institute of Architecture, construction and design. » Since 2017 has 3 institute departments and 2 colleges. Research Fields: Physics and chemistry of materials and processes of solid-state electronics; Research: Nonclassical boundary value problems for differential equations and their applications to environmental protection; Development of methods for improving the technical and economic performance of equipment and technologies of machine-building industries. Research of dynamics and reliability of machines and equipment; x-ray Diffraction crystallography; Physics of interphase phenomena. Thermal physics; New, metal, polymer, structural and composite materials, structural ceramics; Biodiversity of the Central Caucasus: composition, structure, dynamics, ecology, protection, rational use; Scientific bases of management of interaction of the person and environment; Mathematical and information and logical models and their computer assistance; Methods of increasing diamond tools durability ; Medical and biological research; Adaptive physiology and medicine; 					
		Major		-			
	Ph.D	Research field		-			
		Liecenanon	Guanidine-containing poly	mers and nanocomposites based			
Education		Major		-			
	MS	Research field		-			
		Dissertation		-			
	BS	Major		-			

Available for trip to Korea	Yes			Intellectual property Information	20. Patent No. 2407606 Damping Railway Patent No. 2349699 An iron-based high damping alloy with a regulated level of damping and mechanical properties and an article made of it	
Category of Research (by 6T)	NT(Nar	o Technology), E	T(Envi	ronment Technology)	, ST(Space Technology)	
Available field for consulting	research Research A flexible Selection The poss Developn products Delivery Ensuring	Research Institute of Iron and Steel named after Bardin is the leading Russian ch center for the creation of metallurgical technologies and new materials ch Application / Advantages le, individual approach to each order, taking into account the wishes of consumers on of materials in accordance with customer requirements ssibility of additional scientific research and research pment, adjustment and approval of regulatory documentation for the supply of ts at the federal and industry levels y of products in small batches and high level of product quality m lead time				
		Major			-	
	Ph.D	Research field			-	
		Dissertation			m of the formation of a highly ed ferromagnetic alloys	
Education	Education				_	
	MS	Research field			-	
		Dissertation	Dissertation		-	
	BS	Major			-	

Available term for consultation	5 days			Available for trip to Korea	YES	
Intellectual property Information					sual display of health and safety t to their type 2015613552	
Category of Research (Choose 1 or more)	ST (Sp	ST (Space Technology), Civil aircraft, MT (Material Technology)				
Available field for consulting	- Pate safety	 Currently working for United aviation corporation (UAC) of ROSTEC Patents: e.g. Emap of the repair base area with visual display of health and safety hazards of the technological environment subject to their type 2015613552 				
		Major	Engineering			
	Ph.D	Research field			-	
		Dissertation		ar positioning hig ated machinery	h-response hydraulic drive for	
Education		Major			-	
	MS	Research field		-		
		Dissertation			-	
	BS	Major			-	

Available term for consultation		5 days		Available for trip to Korea	YES	
Intellectual property Information	n/a					
Category of Research (Choose 1 or more)					ogy), ET(Environment Technology), t), MP(Manufacturing&Production)	
Available field for consulting	 2019-current Adviser to CEO, Association RH ISTC 2009-current Vice-president, Aviation and building technologies 2016-2017 Deputy general director, New Defense Technologies Projects for the export of high-tech dual-use and civilian products for Russian enterprises: * Condor 2020 (the fight against air drug trafficking); * Modernization / equipment of airfields and helipads); * Promising systems for providing instrumental take-off / landing; * Promising building technologies Continents: Latamerica, Middle East + Countries: CIS, India, Vietnam (Specialty) Specialization in regional and interstate high-tech projects related to the transfer of production and technology, including the industry: aerospace; National Air Navigation Plans; security systems in high technology; complexes of airfields and control centers; monitoring complexes (space-air surface); complexes for ensuring accurate navigation / landing / special operations at the local and national levels. 					
		Major			-	
	Ph.D	Research field			-	
		Dissertation			-	
Education		Major	Mos		Physics and Technology (National earch University)	
	MS	Research field		Flight D	ynamics and Control	
		Dissertation	De	velopment and t	esting of aerospace engineering	
	BS	Major			-	

Available for trip to Korea	Yes		Intellectual property Information	 Russian utility model patent No. 113266 « Installation for cleaning swimming pool water using ozone, ultrasound, UV radiation and chlorine» (joint authors); Patent for invention of the Russian Federation No. 2635129 «Waste water treatment system» (joint authors) 	
Category of Research (by 6T)	ET(Environment Technology), Shipbuilding				
Available field for consulting	technology; 2) Design issu 3) Assessmen vessels; 4) Justification	es of a hydrodyna t of possible locat of the size of the	amic cavitator;		
		Major	Ship design and cor	nstruction	
	Ph.D	Research field	Water treatment, design of ship swimming pools		
Education	Education		Improving the design methodology for ship pools with their own water treatment system		
	Diploma degree (5 year	Major	Shipbuilding	Shipbuilding	
		Research field	Ship design	Ship design	
	program)	Dissertation	Conversion of a 559B ship		

Available for trip to Korea	Yes (up to 14 days)	Intellectual property Information	RU2651821C1. Method of localization of explosion of methane-air mixture and coal dust and device for its implementation
Category of Research (by 6T)	ET(Environment), E	ETC (Technology Tran	sfer, Legal Services)
Available field for consulting	the Ministry of Defense of the US - (1991-1995) Serviced in the Ar in a military court (Znamensk, As - (1995-August 2019) Advocate technical expertise, a member of - (2004-August 2019) Chairman - (2004-2009) Chairman of the E Region) - 2016 – Multinational Joint R&D technology transfer from Russian - (2017-2019) Advisor to Directo & Environmental Safety in Minin VOSTNII») - August 2019 - Deputy General & Environmental Safety in Minin VOSTNII») - August 2019 - Deputy General & Environmental Safety in Minin VOSTNII») / Head of Moscow R 2) Consultation Fields 1. Research Activities 2. Expertise and Conclusions in 3. Testing and Certification 4. Environmental Monitoring 5. Scientific and Educational Act 6. Publishing 7. Design Bureau 8. Scientific and Technological S 9. Development of Regulatory D 10. Development of Technical R Specifications of TU.	SSR med Forces of the Rus strakhan Region) specialized in natural r f Moscow Bar Associa of the Presidium, Law Board of Directors, CJS o and JV Project in soft n Fed.) r General, State Scienti g Industry of the Russi epresentative Office the field of Industrial S ivities Support ocuments for the Minir egulations of the TR T s Management (espect s with RTN (Rostechna Natural Resources and Federal Security Serv products related to ind with Russian legislatio	resources development & tion Firm «Borodin & Partners» SC Belovskaya Mine (Kemerovo -magnetic materials (by tific Center VOSTNII for Industrial ian Federation (JSC «NC fic Center VOSTNII for Industrial ian Federation (JSC «NC Safety bafety bally between Russian & Korean adzor) and its certification & Environment, Federal Agency rice, Ministry of Justice etc.

		Major	-
	Ph.D	Research field	-
	Education	Dissertation	-
Education		Major	Law Faculty at the Red Banner Order Military Institute (Moscow) of the Ministry of Defense of the USSR
	MS	Research field	Juridical Field (Aviation Law)
		Dissertation	Aviation & Space Law Regulation Measures
	BS	Major	-

Available term for consultation		1week		Available for trip to Korea	Yes
Intellectual property Information					
Category of Research (Choose 1 or more)	IT (Information Technology), Software development				
(Choose 1 or more)	experies Based Eg. Yo What y Applica *Below 1. Care - (2018 busines team m - (2018 organiz verifica V archi - (2018 organiz verifica V archi - (2018 organiz verifica V archi - (2018 Statistic process - (2008 termina - (2008) termina - (ence. on this paper, the ur background an ou can "coach / a able fields, Expect is just example eer Path (Experien 3 ~ current) Sof ss analytics of ne nanagement, deve 5 ~ 2018) Head of cation and technic tion for microelec tecture, system s 3 ~ 2015) Softwar d/Windows platfor 2 ~ 2013) Lead cal analysis of ne sing software deve 3 ~ 2009) Softwar es control system sultation fields mentation of Dev ct analysis and co are development are develo	e applica ad career advise / c ted effect nce) tware A ew projec elopmen of the D cal leadir tronics d coftware re Devel rms Software re Devel rms Software re Devel re Devel re Devel re Devel re Devel re Devel re Devel re Devel re Devel re Devel an software cost est team or lanning Stage G anageme es of IT-1 an get th elopmer	nts will choose t rs, Your "researc contribute" from y contribute" from y ct from consultation rchitect \ CTO cts, strategy and t cost estimation epartment in Te ng of a new depa levelopment, ver development, ver development, ver development, ver development, ver development, ver development te nt, system integr loper in MAM Sys re omation of requirements imation ganization and r and Project ma Sate, Value Curv al technologies ent Management So ne methodologie	in I-EXP, main responsibilities are d roadmap of software development, h, edutech econ MT, main responsibilities were artment of software development and ification of new processor with RISC- evOps, team management ICQ client software development for Stoloto, main responsibilities were rminal software development, cloud ration with partners software lat, C++\Qt programmer in payment stems, C++, application programmer
	- Softw 6. App	are requirements k.		>	
Education	MBA	Major	Infor	mational manag	ement
		Research field			nt organization, development dge technologies

	Dissertation	Software development cost estimation
	Major	Applied Mathematics and Informatics
MS	Research field	Real-time decision support systems
	Dissertation	Temporal databases research and realization
BS	Major	Applied Mathematics and Informatics

Available term for consultation	Up to 1 week	Available for trip to Korea	Yes			
Intellectual property Information	-					
Category of Research (Choose 1 or more)	IT(Information Technology)					
	Area of expertise: machine learn	ing, data mining,	computer vision, IoT			
	Programming languages: Pytho	n, C, C++, C#, Ob	jective-C			
	Libraries/Frameworks: Tensorflond nGraph, various python libraries	ow/Keras, PyTorcl	n, Caffe, NVIDIA TensorRT, Intel			
	Data science: Machine learning, recurrent neural networks, compu analysis, video analytics, neural n	ter vision, regress	ion models, hierarchical cluster			
	Other: Git, PostgreSQL, TeX, bas	sic skills of iOS an	d IoT development			
	Languages: Russian (native), En	glish (fluent)				
	Projects & experience:					
	3 year experience as a developer, data scientist and software engineer.					
	Completed various IT-projects: • Object detection and recognition in images and videos (faces, people, cars etc.) • Classification (emotions, age, gender, insects etc.) • Text clusterization • Style transfer					
Available field for consulting	Have wide experience with customer code and models integration, models tuning and heuristics design for production usage, full customer interaction.					
U U	Technologies used: CNNs, RNNs, GAN, MapReduce, CUDA, TensorRT, OpenCL, MIOpen, Intel MKL- DNN, nGraph. Tools: Docker/NVIDIA Docker, Selenium, PyCharm, Jupyter Notebook, Sublime; Atlassian stack: JIRA, Confluence, Bitbucket, Trello etc.					
	Education: Specialist in mechanics and mathematics Moscow State University (MSU) September 2009 — July 2014					
	 Consultation fields How to classify and deconstruct problems and build neural networks architectur based on the problems specifics (NLP, CV, ASR, etc.) How to cut and optimize architectures to speed up inference with minimal qualoss How to speed up inference using TensorRT How to use multiprocessing and train networks using multi GPU How to build efficient algorithms 					
	 Expected effect Applicants can implement Applicants can automate w Applicants can speed up values. 	vorkflows and opti	•			

		Major	Mechanics and mathematics
Education	MS	Research field	Probability theory
		Dissertation	On galactic dynamo equations with helicity flows and random coefficients

Available term for consultation	Up to 1 week	Available for trip to Korea	Yes			
Intellectual property Information	-					
Category of Research (Choose 1 or more)	IT (Information Technology)					
	Area of expertise: machine le	earning, data mining,	computer vision, IoT.			
Available field for consulting	 product quality analysis back-end and front-end Designed neural network classification; Designed neural network company; Developed highly optime neural networks for lice Designed neural network Conducted research, gend synthesis, trained for the synthesis, the synthesis, trained for the syn	TensorFlow, Keras, D bark. ng, neural networks, o P, STT. English (fluent). in various fields: ontrol project for a react is tools for video stread d servers); orks for an insurance of hized pipeline, design ense plate detection/s orks for specified obje athered and processon neural networks; uper Resolution GAN gh quality neural networks; athematics Moscov athematics Moscov	deep learning, reinforcement staurant network (implemented ming, managed application's company for document etection for a pharmacy ed, trained and accelerated segmentation and recognition; cts detection and classification; ed data for speech recognition networks for film quality works for age and gender k administration, server g nginx, SQL, Django, CRON, Wav2Letter, Tacotron 2, BERT, PyCharm, Jupyter Notebook, ket, Bamboo, etc.			
	-	•	cs (NLP, CV, ASR, etc.)			

	qu - Ho - Ho - Ho Expected - Ap - Ap - Ap	How to cut and optimize architectures to speed up inference with minimal quality loss How to speed up inference using TensorRT How to use multiprocessing and train networks using multi GPU How to build efficient algorithms ted effect Applicants can implement AI solutions into their own products. Applicants can automate workflows and optimize inner processes. Applicants can speed up solutions to reach desired quality and speed metrics values.		
		Major	Mechanics and mathematics	
Education	Education MS R		Mathematical and Computer Methods of Analysis	
		Dissertation	On the arithmetic problems of the Merkle-Damgaard hash function	

Available term	Free	Available for	Yes			
for consultation		trip to Korea				
Intellectual property Information	to Samsung Electronics (SEC). The	e results can be	arded to technological issues belong accessed after getting a permission published at Russian and foreign			
Category of Research (Choose 1 or more)	Optics and Photonics, Optics of lasers, Informational optical devices and laser systems					
	 Career Path (Experience) (2016 - Current) Vavilov State C consultant 	ptical Institute,	StPetersburg, Technical expert-			
	· · · ·		tersburg, General director assistant, developments in the field of laser			
	- (2005 - 2009) Samsung Electr Mechatronics & Manufacturing C Holographic Nanolithograthy		te Technology Operation (CTO), Korea. Principal Engineer, UV			
	- (2001 - 2005) StPetersburg State University for Information Technology, Mechanics and Optics, StPetersburg, Russia, Professor Associate. Lecturing					
	- (2000 - 2005) LOMO PLC – Leningrad Optical Mechanical company, StPetersburg, Head R&D					
	- (1993 – 2000) Research Institute Scientist	for Laser physic	s, StPetersburg, Senior Research			
Available field for consulting	 2. Consultation fields Applied photonics and optic Lasers, laser optical system Traditional and modern opti Precision measurement system Optical devices for various precision devices and Manufacturing of optics Testing 	s and its applica cal materials tems, purposes,	ations,			
	For several years I was employed a - LIMO Microoptik GmbH, Dortmun - Center for Advanced Research in a Italy, - Industrie Anlagen Betriebs Gesels - Schneider GmbH &Co, Fronhau	d, Germany, Space optics (C schaft, IABG, Mu	ARSO), Area Science Park, Trieste,			
	3. CertificationMay be possible based on Russia	-	ý			
	 4. Relate Networking Member of Rozhgdestvenski Optical Society, Russia Member of International Society for Optics and Photonics (SPIE), USA Member of European Optical Society (EOS), EU 					
	5. Expected effectResults of the consultations will he	elp to prepare pr	roposals for grant programs			

	manufactu - Search f manufactu - Reduce I 6. Appx. List of som - Research - Leningra - Samsun	 Improve product quality, performance efficiency and process of optical devices manufacturing Search for optimal solutions for advanced device development on all stages of manufacturing, testing and production Reduce loss and cost saving thru process optimization Appx. List of some references: (see Attachments): Research Institute for Laser Physics, StPetersburg, Russia Leningrad Optical-Mechanical Company -LOMO PLC, St-Petersburg, Russia Samsung Electronics, CTO, Mechatronics & Manufacturing Technology center, Suwon, Korea 			
		Major	Laser optics		
		Research field	Laser optical systems and their applications		
	Ph.D Dissertation		Dissertation Title: High Precision Laser Interferometer for Geophysical Applications, Vavilov State Optical institute		
		Dissertation	Diploma TN-102281,09.09.1987, Saint-Petersburg, Russia		
	MS	Major	Physics, Applied Optics		
		Research field	Optics and spectroscopy		
Education		Dissertation	Title: "Spectral investigation of continuous high-current Ar-laser", Physical faculty, Leningrad State University, Russia Diploma U-502909, 31.05.1972		
		Degree	Senior Research Scientist (Associated Professor) ,		
		Associated	Research Institute for Laser Physics, Saint-Petersburg, Russia		
		Professor	Diploma 5-US , 23.04.1998		
	EU Program	Research and management, marketing	Area Science Park, Trieste, Italy Certificate, 20.12.1999		
		Scientific	Lovanium University, Loeven, Belgium		
	EU Program	Management	Certificate, 15.05.1999		

Personal:		Steady, reliable person, non-smoker, in good health. Hobbies: ski sport, Diploma - coach of boating tourism (rafting) photography. Life style: active sport man
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Available term for consultation	5day / 1week / free / ETC Available for trip to Korea Yes/ No
Intellectual property Information	> 10 patents in client projects.
Category of Research (Choose 1 or more)	IT(Information Technology), BT(Biology Technology), NT(Nano Technology), ET(Environment Technology), ST(Space Technology), ME(Material&Equipment), MP(Manufacturing&Production), CT(Convergence Technology), <u>ETC(Please fill in)</u> Certificate of TRIZ specialist №64 of the International TRIZ Association. See appendix 1.
Available field for consulting	 Work experience: (March 2011 – Current) Individual entrepreneur, TRIZ-consultant. Problem solver. Projects for EVRAZ, ROSATOM, etc. (December 2009 – March 2011)TRIZ – consultant in "Technopark of Saint-Petersburg". Russia. Activities: The help to technopark's residents in the problem solving of manufacture and production improvement. (July 2005 – February 2009) TRIZ – consultant in Samsung SDI, Suwon, South Korea. Activities: The help to working groups in the problem solving of manufacture and production improvement. TRIZ training. See Appendix 2. (October 1995 – February 2003) TRIZ – expert in Algorithm Itd. Team manager of advice project, technical problem solver, researcher. (April 1987 – September 1995) Engineer in Shipbuilding Design Office "RUBIN", Researcher and developer of the Computer-aided Projecting System (CAPS). Duties: Designer of technical descriptions for the CAPS. Designer drawings of hull. CV I'm problem solver in scientific and technical area, on the basis of methods of technical creativity of TRIZ and FCA. Professionally I work as the TRIZ-consultant since 1995. Fort this time it is executed more than hundred projects and several hundreds solutions are made. The part of decisions is patented by customers, including for my name. On Samsung SDI it is sent about 20 applications for patents. I completed dozens of practical seminars for Russian corporations, with a solution of about 200 real problems of customers. List of tasks to be oslved: Solving the problems of production modernization; Elimination of marriage and losses; Imprort substitution and circumventio

	 For Samsung SDI (about 100 projects/consultations): 7. A portable energy source on the basis of fuel cells. 8. Reduction prices of the chassis of the plasma TV. 9. Improvement of the display for mobile phone - some projects. 10. CRT the TV - some projects on reduction of depth of a kinescope. 11. Lithium-ion accumulators - some projects for maintenance of passage of tests on safety. 12. Elimination of various defects during manufacture PDP. 		
		Major	Electronics Engineering
	Ph.D	Research field	Non-volatile Memory(PRAM, MRAM, FRAM), Semiconductor packaging process, equipment and materials(Adhesive, film)
		Dissertation	Flexible transparent GO-NH2-AgNP/AgNW/PET multilayer electrode for nonvolatile memory applications
Education	MS	Major	Advanced Materials Engineering
		Research field	Advanced materials manufacturingweb-coating, roll-to-roll, vanish mixing)
		Dissertation	Microstructure evolution mechanisms and physical, mechanical properties of kinetic and thermal sprayed multi- walled carbon nanotube reinforced metal composite coatings
	BS	Major	Electronics Engineering

Available term for consultation	Free	Available for trip to Korea	Yes		
Intellectual property Information	From 2004 till 2006 all obtained results are regarded to technological issues belong to Samsung Electro-Mechanics Co., Suwon, Republic of Korea. The results can be accessed after getting a permission from SEM. All other patents and all my papers are in my own personal Intellectual property				
Category of Research (Choose 1 or more)	Materials Science and Technology, Optoelectronic materials and devices. Luminescence and luminescent materials. LED experience				
Available field for consulting	 Academy Sciences of M 2012. Visiting Professor Engineering Universiti Sai 2007-2011 Research Pi Engineering, Gwangju Ins of Korea. 2004-2006. Principal Rese Republic of Korea. 2003-2004. Research P Engineering, Korea Advan Display Material Lab., Ma 1979-1982. Professor in A 1973-2003. Associate pro Moldova. 2. Consultation fields Professional with extens Science and Technology. Materials analysis, charae Optoelectronic materials Luminescence and lumin Synthesis and investigati of nanophosphors and ph Physical and chemical m emitting performance. LED experience. 	loldova, Repub r, School of J ins Malaysia, 143 rofessor, Depar- titute of Science earcher in Sams professor, Depar- nced Institute of iterial Science de nnaba State Univ ofessor, Chair of sive research an cterization and te and devices. escent materials on of luminescen- tosphors with sul- ethods of phosph	Materials and Mineral Resources 300 Nibong Tebal, Penang, Malaysia tment of Materials Science and and Technology (GIST), Republic sung Electro-Mechanics Co., Suwon, rtment of Materials Science and Science and Technology (KAIST). epartment, Republic of Korea versity, Algeria of Physics, Technical University of d teaching experience in Materials esting;		

	Reviewer and consultant of the International journals: Solid State Chemistry, Journal of Luminescence, Optical materials, Journal of Crystal Growth, Electrochemical and Solid–State Letters, Materials Science and Engineering, Materials Research Bulletin, Journal of Alloys and Compounds, Journal of non- crystalline Solids, etc;				
	3. Certification				
		Doctorate certifica	ate, MFM No 021128, Moscow, Russia		
	4. Rela	te Networking			
	Ν	Member of the Ne	w-York Academy of Sciences.		
	N	Member of the C	ptical Society of Korea		
	Ν	Member of the L	uminescence Society of India		
	Ν	Member of the N	licroscopy Society of Malaysia		
	5. Expe	ected effect			
			can get the methodologies how they can logically prepare ernment grant program		
	Improve product quality and manufacturing yield in luminescent materils reduce loss and cost saving thru process optimization				
	Tech. driven discussion for advanced device development on all stages of manufacturing and testing				
	6. Appx.				
	Research Professor , Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology (KAIST).				
	Principal Researcher in Samsung Electro-Mechanics Co., Suwon, Republic of Korea.				
	Visiting <i>Professor</i> , Department of Materials Science and Engineering, Gwangju Institute of Science and Technology (GIST), Republic of Korea.				
	Invited Professor , School of Materials and Mineral Resources Engineering Universiti Sains Malaysia, 14300 Nibong Tebal, Penang, Malaysia				
	CV and List of main references: (see Attachments)				
		Major	Electron microscopy		
		Research field	Semiconductors and dielectrics at low temperatures		
Education	Ph.D	Dissertation	Dissertation Title: Electron microscopy of semiconductors at low temperatures		
			Doctorate certificate, MFM No 021128, Moscow, 07.12.		

		1973, Russia Moscow State University, Moscow , Russia
	Major	Advanced Materials Engineering
	Research field	Physics, Electronics Engineering, Advanced materials manufacturing
MS	Dissertation	Diploma N 634716, Moscow State University, 27.01. 1970, Moscow, Russia Moscow State University, Moscow , Russia
BS	Major	Electronics Engineering

Available term for consultation		free		Available for trip to Korea	Yes
Intellectual property Information	150 sc	50 scientific paper (Scopus and Web of science); 5 patents			
Category of Research (Choose 1 or more)	IT(Info	IT(Information Technology), NT(Nano Technology)			3A)
Available field for consulting	IT(Information Technology), NT(Nano Technology) 1. Career Path(Experience) - (1996 ~ 1998) Applied Phase Transition Co. in USA (DARPA project "Nonorgani resist for photo- and E-beam lithography) - (2005 ~ 2009) Senior Researcher in Devices Lab, SAIT, Samsung Electronics Co Research in Non-volatile Memory (Resistance Random Access memory – hear after ReRAM), in oxide electronics technical units (heterostructures – diodes an transistors) of Devices Lab (2009 ~ current) Professor of the Petrozavodsk State University. 2. Consultation fields Applicant provide ideas, advise, and work related to the oxide electronics in technica devices of interesting company: (a)Technical support for standard or novel activities: - Contribute to on-volatile ReRAM memories (investigation on the physics an engineering for materials and construction of convenient devices) Contribute to investigations devices utilizing metal-insulator (MIT) in different oxide materials Anodic oxidation (new materials, new technologies, application for constructions ne devices in nano scale. (b) Follow-up research activities 3. Certification - Technology Transfer Manager (completed certified training under the CRD "Transfer technology management" program in the United States) Government certificate (scientific and pedagogical expertise in the field or semiconductor electronics). 4. Expected effect - Applicants can get the methodologies how we can logically prepare proposal for th government grant program - Improve product quality and manufacturing yield in semiconductor production - reduce loss and cost saving thru process optimization - Improve product quality and manufacturing yield in semiconductor device especially for oxide electronic (especially flexible and transparent) - Tech. driven discussion for advanced device development on early stage(device scale, form factor, configuration, production).				
		Major		ics, Electronics	
Education	Ph.D	Research field			r (ReRAM,), Oxide electronics.
		Dissertation	Met vanadi		sition in amorphous dioxide
	MS	Major	Phys	ics, Advanced N	Materials Engineering

	Research field	Properties of the transition metal oxide
	Dissertation	Metal-insulator transition in anodic oxide materials
BS	Major	Physics, semiconductor electronics

Available term for consultatio n	Free	Available for trip to Korea	Yes				
Intellectual property Informatio n	Please fill in the patents(Please fill in the patents(filed / registered) information More then 10 Patents					
Category of Research (Choose 1 or more)	IT(Information Technology), BT(Biology Technology), NT(Nano Technology), ET(Environment Technology), ST(Space Technology), ME(Material&Equipment), MP(Manufacturing&Production), CT(Convergence Technology), <u>ETC(Please fill in) New</u> type of energy sosrses						
Available field for consulting	Born December 30, 1953 Key specialties : design automation, power & H design. Please fill in detail informer experience. Appx. (Publications) 2012 - Book "Quantum 2012 - Book "Engineerin 2012 - Book "The energy 2012 - Book "Fuel cell to	n and implementation of al neat generation, transportation mation of your available consent in Vacuum - two types of ener ng foundation for a new energy y and the physical vacuum" echnology", № 2249886 H1M D FOR DETERMINING OF					
	8-Pr - Busi	on project engineering basi ness Partners in CZ SIMI E s.r.o (chef of the R&D de	ETI s.r.o (consulting)				

	Business, consulting and partnerships with a number of European companies.
2 201 5 -	Ltd. Infodate , Co-founder, Co_Director Solar technology Ltd Technical Director <u>http://solartechnologies.ru/</u> Ltd. PIR . (Industrial Research and Development). Director of Economics. Consulting services in the implementation of engineering projects with firms of Germany MONTECH and solar energy practice in companies of Czech Republic.
FORMAL	EDUCATION
$\frac{1}{2006} - 20$	EDUCATION 009 Rates accounting, management, marketing, business trai
	ning USA and Sweden
1984-1986 1980 –	
1900 -	or, German-Russian technical translator, Volgograd Stat
1974 – 19	 e Pedagogical University. Electrical Engineer, Volgograd State Technical University (Volgograd, Russia)
Based on this paper	, the applicants will choose the consultation partner.
PUBLICATIONS	
20 Book (R 12 U)	"Quantum Vacuum - two types of energy" ISBN 978-5-94424-203-7 <u>http://samlib.ru/g/gpebenchenko_j_i/032.shtml</u>
20 Book (R 08 U)	"Engineering foundation for a new energy" ISBN 978-5-94424-094-1 <u>http://samlib.ru/g/gp</u> ebenchenko_j_i/030.shtml
20 Book (R 04 U)	"The energy and the physical vacuum" ISBN 5-93567-063-1 http://samlib.ru/g/gpebenchenko_j_i/033.shtml
RU Patents	
AC № 11824	421 1984 DC voltage level indicator.
	atents/doc/SU1182421A1_19850930
AC № 1431073	1987 Multichannel digital to analog converter.
https://yandex.ru/pa	atents/doc/SU1431073A1_19881015
AC № 1682069	1988 Photocopy system for gas cutting machine.
https://yandex.ru/pa	atents/doc/SU1682069A1_19911007
RU 2249886	2005 METHOD FOR CONTROLLING OUTPUT CURRENT OF

ELECTROCHEMICAL

GENERATOR

(OPTIONS)

https://patents.s3.yandex.net/RU2249886C2_20050410.pdf

RU 2396540 **2008** METHOD FOR DETERMINING DURABILITY OF DESIGN MATERIALS IN AGGRESSIVE MEDIA AND DEVICE FOR ITS IMPLEMENTATION https://yandex.ru/patents/doc/RU2396540C2 20100810

 RU
 2
 5
 2
 0
 2
 7
 2011
 DEVICE
 FOR
 Catching
 Locusts

 https://yandex.ru/patents/doc/RU2520277C2_20140620
 20140620
 EVICE
 FOR
 Catching
 Locusts

RU25846182013METHOD OF PROCESSING METAL PARTS IN ACOUSTICCONDITIONSRESONANCE EXPOSURE AND DEVICE FOR IMPLEMENTING THEMETHODhttps://patents.s3.yandex.net/RU2584618C2_20160520.pdf

RU 2651841 2013 A method of processing metal parts under conditions of acoustic resonant exposure to a stream of a mixture of compressed air and gaseous chemicals and a device for its implementation

https://patents.s3.yandex.net/RU2651841C2_20180424.pdf

International patents

EP 0396752A1 2005 INDUSTRIEROBOTER

https://patents.google.com/patent/EP0396752A1/de

Wo 2009/157808 A22008 METHOD FOR DETERMINING DURABILITY OFDESIGN MATERIALSIN AGGRESSIVE MEDIA AND DEVICE FOR ITSIMPLEMENTATION

https://patentscope.wipo.int/search/ru/detail.jsf?docId=WO2009157808

CZ Patent 029534 2016 Autonomous apparatus for trapping blood sucking ticks

https://isdv.upv.cz/doc/FullFiles/UtilityModels/FullDocuments/FDUM0029/uv029534.pdf

CZ Patent 307004 2017 The methods for producing thermal energy, the devices for its implementation, and heat generation systems

http://spisy.upv.cz/Patents/FullDocuments/307/307004.pdf

International Patent Application for CZ Patent 307004 2017:

CA3017034A1 Canadian Patent Application

CN109074872A China_Patent Application

KR20190021195A Sous Korea Patent Application

US2019096535A1 US_Patent Application

<u>WO2017152889A1</u> International application published under the patent cooperation treaty (PCT)

	you can "coach /	ar background and careers, Your "research / development / business" fields, What "coach / advise / contribute" from your knowledge and experience, ble fields, Expected effect from consultation				
	Major Elec	Major Electronics Engineering				
Education	1984-1986	Patent Examiner, Institute of patenting.				
	1980–1982	Professional retraining diploma English-Russian Translator, German-R				
		ussian technical translator, Volgograd State Pedagogical University.				
	1974–1979	Electrical Engineer, Volgograd State Technical University (Volgogra				
		d, Russia)				

Available term for consultation		free		Available for trip to Korea	Yes
Intellectual property Information	Knowhow regarding manufacturing method of Tungsten Carbide Nano-particles				
Category of Research		NT(Na	ano Tech	nology), ME(Ma	aterial&Equipment)
Available field for consulting	1. Research Career (Experience) PhD in Physics and Mathematics, Senior Researcher, Laboratory of Non-Stoichiometric Compounds, Institute of Solid State Chemistry, Ural Branch of the Russian Academy of Sciences. Author and co-author of 71 published works, including one review ("Advances in Chemistry", 2006) and 38 articles in domestic ("Journal of Experimental and Theoretical Physics", "Solid State Physics", "Letters in JETP", "Reports of the Academy of Sciences", "Journal of Physical Chemistry", "Inorganic Materials", "Journal of Structural Chemistry", "Materials Science", "Metallophysics and Latest Technologies" and others) and foreign ("Physical Review", "Journal of Solid State Chemistry ", "Nanotechnology "," International Journal of Refractory Metals and Hard Materials ") scientific journals, 7 articles in domestic and foreign collections. 2. Consultation fields Phase and Equilibria in the W-C and W-Co-C Systems . Crystals structure of Tungsten Carbides Nanocrystalline Tungsten Carbide . Production and Properties of WC Nanocrystalline Powders Hardmetals WC-Co Based on Nanocrystalline Powders of Tungsten Carbide 3. References Chairman of the Council of Young Scientists of the Institute of Solid State Chemistry, Ural Branch of the Russian Academy of Sciences (2006-2012). . Member of the Council of Young Scientists of the Ural Branch of the Sverdlovsk Region (from 2009 to the present). . Chairman of the Council of Young Scientists of the Ural Branch of the Russian Academy of Sciences (2006-2012). . Major Physics and Mathematics				
Education	Ph.D	Major Research field	Physica	al chemistry of s	olids and materials science.
Laudaun		Dissertation			mpounds es of tungsten carbides of various

	3. Lekhnov EA, Konoshenko M.Yu., Bryzgunova O.E., Zaporozhchenko IA, Laktionov PP, Method for the isolation of extracellular vesicles from biological
	fluids. Russian Patent No. 2678988, registered on 05.02.2019, priority date 05.03.2018.
Category of Research (Choose 1 or more)	BT(Biology Technology), ME(Material&Equipment), MP(Manufacturing&Production), Molecular Biological Technologies (Tissue culture, cell-free DNA, RNA, NGS, etc)
	1. Career Path Graduate from Novosibirsk state university at 1983, as Biochemist and Molecular Biologist, young scientist in the Institute of Organic chemistry SB RAS (NIOCH SD RAS), Institute of Biochemistry SB RAS (NIBOCH SD RAS), Institute of Immunology SB RAMS (IIM SB RAMN), starting from 1994 in the current institute of Chemical Biology and Fundamental Medicine SB RAS (ICBFM SB RAS). Starting from 2000 leader of the Group of Cellular Biology, starting from 2013 leader of the laboratory of Molecular Medicine of ICBFM SB RAS. Starting from 2014 leader of the Laboratory of Biomedical Technologies of National Medical Research Center named academician Meshalkin, Ministry of Health of the Russian Federation. Shareholder of Biosilica Ltd (production of DNA and RNA isolation KITs, since 2006) and TE&GRAFTS Ltd. (second shareholder is ICBFM SB RAS, tissue engineering of cardiovascular devices, since 2019) More than 130 publications in PubMed, h-index 23 (Scopus), supervisor of many grants from RFBR, RSF, Ministry of Health of Russian Federation, etc.
Available field for consulting	 Experience. 1983-1988, Scientist in NIOCh SB RAS, NIBOCH SB RAS. Production of monoclonal antibodies against no less than 10 antigens, development of a rapid method for localization of antigenic determinants on proteins, study of proteins antigenic structure and functional topography. Preparation of Au, Fe, Ag colloids. Preparation of the complexes of the colloids with proteins, protein localization in cells, TEM-immunogold protein localization. 1989-1994. Director of Bios Ltd. Development of technologies for production of immunochemicals (immunoglobulins, monoclonal antibodies, affinity purified polyclonal antibodies, proteins). Development of antibodies in mice, rats, rabbits, goats, sheeps. Production of poly- and monoclonal antibodies against peptides, haptens, conjugates preparation, design of immunoassays. Large scale production of fetal calf serum, immunoglobulins, affinity purified antibodies and their fragments, conjugates. Production of poly- and monoclonal antibodies by order, purification of peptides and proteins by order. Designing and production of laboratory equipment. 1994-2020 Basic Biochemistry and Molecular biology including isolation of biopolymers (proteins, DNA, RNA, microRNA) and microvesicles for general study as well as for diagnostic and DNA vaccines. Study of biopolymer interactions, including affinity modification. Development of cell-free DNA and RNA based cancer diagnostics. Cell culture, primary and transformed cells, immune histochemical and
	 mRNA based cell characterization, tests for toxicity (ISO) and biocompatibility, investigation of cell interaction with different materials including deep study of cellular phenotype by NGS sequencing. Tissue engineering of hyaline cartilage, vascular grafts, covered metal stents and cardiac valves. Basic study of the mechanical and chemical properties of the materials (XPS, IR, SAXS, SEM, strain-stress diagram, etc). Production of drug-releasing materials, study of drug release from 3D matrices. Study of biomaterials, as well as bioprostheses in vivo. Histology, immunohistological studies, blood biochemistry, etc. Material selection and novel materials development (production of biomaterials from blends of natural and synthetic polymers by electrospinning) Process customization for new device development, biochemical processes (non-pyrogenic biopolymer production), preparation of the technical regulations Strategic business planning and Project management preparation of applications for national and international scientific and production support programs. Technology Transfer activity, preparation of Patents, Know How etc. Expert of Russian Foundation of Basic Research, Russian Science Foundation, etc.

	 3. Exp Ment propos Improbioche reduce rechuce of sma 4. App 	 Supervisor of more than 10 PhD thesises (3 in tissue engineering) Expected effect Mentee(Applicants) can get the methodologies how they can logically prepare proposal for the government grant program Improve product quality and manufacturing yield in field of tissue engineering and biochemistry/molecular and cell biology reduce loss and cost saving thru process optimization Tech. driven discussion for advanced device development (necessary for production of small diameter vascular grafts) Appx. List of publications for last 2 years. 		
	Ph.D	Major	Biochemistry	
		Research field	Nucleic acids and protein biochemistry, oligonucleotide derivatives, oligonucleotide - protein complexes, development of new DNA related techniques, DNA to protein interactions	
		Dissertation	Investigation of interactions of the oligonucleotides and DNA with cells and proteins of body fluids (1997)	
Education		Major	Biochemistry, Monoclonal antibodies technology	
		Research field	Cell culture and hybridoma technology, immunology and immunochemistry	
		Dissertation	Development of the methods of screening and hybridization of lymphoid cells for production of monoclonal antibodies against human myoglobin - myocardial infarction marker (1983)	
	BS	Major	Molecular Biology and Biochemistry	

Available term	free	Available for	Yes					
for consultation	9 international patents, 3 domes	trip to Korea	ussia					
	• Gas laser							
	WO US CN DE RU US8345723B2 Vladimir Vasilyevich Atezhev Optosystems Ltd. PIC GPI RAS							
	Priority 2009-06-19 • Fil	ed 2010-05-27 • Granted	2013-01-01 • Published 2013-01-01					
	• Офтальмохирургическая лазерная система							
		А1 Игорь ГУРЕВИЧ ОБ Ю "ОПТОСИСТЕМЫ" (БЩЕСТВО С ОГРАНИЧЕННОЙ ООО "Оптосистемы")					
	Priority 2014-05-22 • File	ed 2015-05-05 • Published	1 2015-11-26					
	• Способ формирования	оболочки волноводной с	труктуры в прозрачном объемном					
			БУХАРИН ОБЩЕСТВО С ЛПТОСИСТЕМЫ" (ООО					
	Priority 2014-12-24 • File	ed 2015-12-08 • Published	1 2016-06-30					
	 Способ и устройство формирования прецизионных отверстий в оптически прозрачной 							
Intellectual property	WO CN RU WO2015069143A1 Сергей Каренович ВАРТАПЕТОВ ОБЩЕСТВО О ОГРАНИЧЕННОЙ ОТВЕТСТВЕННОСТЬЮ "ОПТОСИСТЕМЫ" (ООО "Оптосистемы")							
Information	Priority 2013-11-07 • File	ed 2014-10-07 • Published	1 2015-05-14					
	• Ophthalmic surgical femtosecond laser system							
	WO CN DE RU CN2026 任公司	82148U 谢尔盖·卡列诺约	推奇·瓦尔塔佩托夫 光学系统有限责					
	Priority 2010-03-10 • File	ed 2011-03-02 • Granted 2	2013-01-23 • Published 2013-01-23					
	• Laser scanning device (la	ser scanning system) with	a resonance scanner					
	WO DE RU DE2120120	00262U1 Optosystems Lt	d. PIC GPI RAS					
	Priority 2012-03-26 • File	ed 2012-12-14 • Published	1 2014-12-02					
	• Gas-discharge laser							
	WO US CN DE RU US8	005126B2 Vladimir Vasil	yevich Atezhev Optosystems Ltd.					
	Priority 2007-03-13 • File	ed 2008-02-11 • Granted 2	2011-08-23 • Published 2011-08-23					
	• Module of a polymer con	nposite saturation absorbe	r with single-walled carbon					
	WO DE RU DE2120120	00233U1 Optosystems Lt	d.					
	Priority 2011-12-29 • File	ed 2012-12-14 • Published	1 2014-08-18					
	• All-fiber laser with an ult	trashort pulse width						

1	WO DE RU DE212012000238U1 Optosystems Ltd.
	Priority 2011-12-29 • Filed 2012-12-14 • Published 2014-08-18
	CVD Reactor
	RU 158 690 U1 Priority 21.09.2015
	• CVD Reactor
	RU2 299 929 C2 Priority 11.08.2005
	• CVD Reactor
	RU 2 393 270 C1 Priority 03.12.2008
Category of	 NT (Nano Technology)
Research	 ME (Material & Equipment),
(Choose 1 or	 MP (Manufacturing & Production)
more)	RESEARCH SKILLS and CURRENT RESEARCH INTERESTS:
	• Gas discharge Excimer laser
	• Laser systems for micromachining
	 Lidar systems for ozone and pollutants measurements
	• Pulse solid state lasers
	• Diode pump solid state lasers
	 Medical lasers (refractive surgery, cardiology, dermatology)
	 Microwave plasma CVD systems and technologies
	1. Career Path (Experience)
	 1977~1980: the chief of research group
	 1980~1990: the chief of laser subdivision of Physics Instrumentation Center Physics
	Instrumentation, Center of Prokhorov General Physics Institute (PIC GRI RAS)
	 1990~2000: deputy director of Physics Instrumentation Center (PIC GRI RAS)
Available field	 2001~2016: director of Physics Instrumentation Center Physics Instrumentation Center
for consulting	of Prokhorov, General Physics Institute
	 2000~present: Founder of Optosystems Ltd. (www.optosystems.ru). Optosystems Ltd. is
	the leading manufacturer of lasers for medicine, science and technology in Russia. The
	product line includes excimer lasers, CO_2 and N_2 lasers, DPSS lasers, medical laser
	systems, lidars, high voltage power supplies and magnetometers.
	2. Consultation fields
	 Consulting on development of laser source and industrial laser equipment using it
	 Joint development of laser processing equipment made of metal, polymer and ceramic
	3. Certification
	 Russian Academy of Science member
	4. PROFESSIONAL MEMBERSHIPS:

	•	Expert of «Russian Corporation of Nanotechnologies»					
	•	Member of Researc	Member of Research Committee of General Physics Institute				
	5. Expected effect						
	•	Mentees (applicants	s) can get a methodology to logically propose a government grant				
		program.					
	•	Support developmer	nt of ultra-precision laser processing equipment for semiconductor and				
		display production					
	•	Process optimization	n to reduce losses and costs				
	• Leading discussion on early stages of advanced device development (device scale, form						
	factor, configuration, BOM / process / production)						
	Ph.D.	Major	Physics (General Physics Institute)				
		Research field	Gas discharge lasers (excimer, CO ₂), solid state lasers.				
		Dissertation	Gas discharge laser with magnetic switch generator (*Advisor – Academician A. Prokhorov)				
Education		Major	Physics (Moscow Physical Technical Physical Institute)				
Education	MS	Research field	Gas discharge lasers (excimer, CO ₂), solid state lasers				
	WIG	Dissertation	High-power solid-state laser with picosecond generator and the problem of interaction of a powerful picosecond laser pulses with solid and gas targets. High power gas discharge CO ₂ and excimer lasers				
	BS	Major	Physics				

Available term for consultation		free		Available for trip to Korea	Yes
Intellectual property Information	-				
Category of Research (Choose 1 or more)	ME(Material&Equipment), ETC(Material Science)				
Available field for consulting	Career Path 1975-1978 – Head of Laboratory of Separation of Substances Mixtures at the Nizhny Novgorod State University 1978-Current – Head of Laboratory of Chemistry of High-Purity Non-Oxide Glasses at the Institute of Chemistry of High-Purity Substances of Russian Academy of Sciences (ICHPS RAS) 1988-1998 – Deputy Director of ICHPS RAS 1998-2017 – Director of ICHPS RAS 2018-Current – Scientific Supervisor of ICHPS RAS 2018-Current – Scientific Supervisor of ICHPS RAS 2. Consultation fields - Chemistry and technology of high-purity substances and materials; - Volatile inorganic hydrides (SiH ₄ , H ₂ S, H ₂ Se) - High Purity Elements (S, Se, Te, As, Ge, Si) - High transparent chalcogenide glasses for the middle IR-range optics - Chalcogenide glass fiber with low optical losses in 2-12 micron wavelength range - Strategic business planning and Project management methodologies(Planning of Government Project proposal) 3. Certification - 4. Relate Networking - Academician Council Chairman of RAS "Chemistry of High-Purity Substances" - Member of Advisory Board of International Symposium of Non-Oxide and New Glasses 5. Expected effect - Mentee(Applicants) can get the methodologies how they can logically prepare proposal for the government grant program - Improve product quality and manufacturing yield in IR optical materials production - reduce loss and cost saving through process optimization - right material selection for IR-optical systems - Tech. driven discussion for advanced device development on early stage 6. Appx. 2008-Current – Full Member of Russian Academy of Sciences				
	Doctor Degree	Major Research field			urity Substances thods and technologies
		Dissertation	Pre	paration of High	Purity Chalcogens
Education		Major	Cher	nistry of High-Pเ	urity Substances
	Ph.D	Research field	Deep	Purification me	thods and technologies
		Dissertation	Sulf Crystal		tion from Melt by Counter Current
	MS	Major	Cher	mistry of High-Pเ	urity Substances

		Research field	High purity elements (S,Se). Deep Purification methods and technologies
		Dissertation	Mass-Spectrometry of cyclic molecules of sulfur and selenium compounds
E	BS	Major	Inorganic Chemistry

Available term for consultation	free	Available for trip to Korea	Yes /		
Intellectual property Information	Controlled Transparency Screen, RU2645450C1, 2016-12-12 Memristor switching device, Application 2019140967 from 10.12.2019 Method for controlling memristor operation and device for its implementation, Application 2019140968 from 10.12.2019				
	Latest publication https://iopscier	nce.iop.org/article,	/10.1088/1742-5468/ab684a		
Category of Research (Choose 1 or more)	IT(Information Te MP(Manufacturing&Production),	echnology), CT(Convergenc	ME(Material&Equipment), e Technology)		
Available field for cooperation	 TCM) Representative in Volga Reg 08.2000 — 09.2009, LG Inn Innotek in Russia Office Head Executive Director of R R&D Project Managem Finance Management, Planning of Representation Search, selection and ar Manage by outsourcing Over 50 R&D projects in electronics, HW and SV Communication, Measure new polymer developm Development of equipm USB, WiFi, Multi Band WiMedia, MIMO, optice 04.1998 - 07.2000, LG Elect TCM) Representative in Nyzhny N R&D projects in area of design, Mobile Communication 	ent, g Center activity, ranging project of engineers ctronics, Technol gion otek, R/F Lab, ab, ent, tive Office activi ranging project of engineers in area of wireless V design, RF Fro prement equipme ent, LED, OLED nent related to W l OFDM, GSM, V c communication tronics, Technol Novgorod ent, ranging project of engineers f wireless commu- nication, measur nent related to W Novgorod State Profesor	development teams blogy Center in Moscow (LG Representative office of LG ty, development teams ass and wired communications, on End design, Mobile nt, D, LCD, etc. LAN, WPAN, WWAN, Wireless WCDMA, GPS, PCS, WiMax, , image processing etc ogy Center in Moscow (LG development teams unications, electronics, HW ement equipment, acoustic WAN, GSM, CDMA, GPS, MW University		

	Basics of communication systems and RF waves propagation, noises and fluctuations.		
	 Over 40 scientific papers in international scientific journals. Citation h-index 11 Participation in projects of INTAS (International Association for the promotion of co-operation with scientists from the New Independent States of the former Soviet Union established in 1993 by the European Community) Participation in the projects of Russian Foundation for Basic Research Participation in Russian-Italian project for International PhD Scholarship in framework of Bologna process 09.1995 - 11.1996, University of Palermo (Italy) Researcher Applied research for ST Microelectronics Optimization of MOSFET transistors 08.1991 - 06.1993, Nizhny Novgorod State University Researcher Scientific research 		
	 3. Certification Foreign economy management, Lobachevsky Univ. International technology transfer, Lobachevsky Univ. Global Manager Course, LG Electronics Learning Center 4. Relate Networking Manager of international PhD school (Russia-Italy-Spain 		
		Major	Radio-physics and Quantum Electronics
Education	n Ph.D	Research field	Fluctuations in nonlinear systems, Markovian random processes
		Dissertation	Time and spectral characteristics of noise induced transient processes in nonlinear systems

Available term for consultation	free	Available for trip to Korea	Yes					
Intellectual property Information	 System and method for adaptive phase compensation of OFDM signals ((US patent 7,457,366) System and method for intelligent transmitted power control scheme (US patent 7,460,876) An adaptive multicarrier wireless communication system, apparatus and associated methods (US patent 7,286,609) System and method for selecting data rates to provide uniform bit loading of subcarriers of a multicarrier communication channel (US patent 7,333,556) Multicarrier communication system and methods for link adaptation using uniform bit loading and subcarrier puncturing (US patent 7,570,953) Adaptive channel equalizer for wireless system (US patent application 20050141657) Downlink preamble processing techniques for initial acquisition (US patent 8,019,026) Method for channel estimation using recursive filtering and multicarrier receiver with interference-aware demodulation (US patent 8,428,158) Interfering base stations recognition method and scheme for 802.16e systems (US patent 8,351,522) Channel quality assessment method in ODFM(A) communications systems (US patent 8,345,781) Method, device, and apparatus for multi-stream multi-band transmission (US patent 7,899,125) Method and apparatus for suppressing co-channel interference (US patent 8,804,884) mmWave communication system using MIMO and beamforming (USPTO provisional application No 61157558) Pre-coding method for spatial multiplexing in multiple input and output system (US patent 8,842,640) 							
Category of Research (Choose 1 or more)	IT(Information Technology)							
Available field for cooperation	SUMMARY • 19+ years experience in R&D and ICT (Intel, Rostelecom, UNN, Lantan) • 12+ years experience in initiation and management of R&D projects • Experience in modern wireless technologies (Car radars, Wi-Fi, LTE/WiMAX, mmWave, etc.) • Ph.D. degree in Physics and Mathematics (Radio Physics), Master degree in Economics • Proven analytical capabilities (number of publications – 30+, patent applications – 14) 2014 — currently: Lobachevsky State University of Nizhni Novgorod (UNN) SENIOR RESEARCH SCIENTIST Achievements: • Several large R&D projects were performed, including: • Optical power meter for high voltage power lines (budget: RUR 142M) • Mobile meteoradar (budget: RUR 94M) • Microwave sensing system for active control of building vibrations (budget: RUR 68M) • UNN Engineering Center was started (budget: RUR 92M) • Megagrant StoLab was started (budget: RUR 96M) 2007-2017: LANTAN Ltd (Nizhny Novgorod, Russia) RAD PROJECT MANAGER Responsibilities: • R&D projects in the area of wireless technology were performed, including: • Super wideband antenna characteristics measurements (for Samsung) • Development of super wideband antenna concept for mobile phone (for Samsung) • Development of super wideband antenna prototype for folder-type phone (for Samsung)							

	 Development of photopolymer material specified properties (for LG Electronics) Direction-of-Arrival (DoA) estimation for 77GHz automotive radar (for LG Electronics) Modification of Direction-of-Arrival (DoA) estimation scheme on the base of real road measurements data (for LG Electronics) 2 US and Korean patent applications were submitted. 						
	SENIOR RESE. <u>Responsibilities</u> - Support of Inte - Preparing mat Philips, SiBEAM - Feasibility stu - Research supp - Investigation o - Development - Development - Development H - Development H - Development H - Development H - Development H - Development G <u>Achievements</u> - 12 US patent - Gratitude from - 2 standard co - First Intel pro - Paper at Intel - Intel Russia/CH	c Intel Corporation ESEARCHER <u>Ilities:</u> If Intel activity in mmWave WPAN standardization process (IEEE 802.15.3c): materials with research results for internal (Intel mmWave Forum) and external (IBM, 8EAM, WirelessHD, IEEE802.15.3c) meetings. ty study of UWB system concept for mmWave WPAN. support of Intel Mobile WiMAX product ("Ofer") developing by BWD-Israel: ion of fast link adaptation schemes efficiency in WiMAX systems (IEEE 802.16e). ment of software platform for system level simulations of Mobile WiMAX systems. ment of DL preamble processing scheme for initial acquisition in IEEE 802.16e hent high throughput wireless LAN concept (IEEE802.11n). hent of link layer simulator of OFDM system (IEEE802.11a PHY). <u>Ints:</u> atent applications were submitted at US PTO. a from Intel Mobile WiMAX product team (BWD-Israel). rd contributions to TG IEEE802.15.3c were sent. I proposal for IEEE 802.11n. Intel Technology Journal. sia/CIS Recognition Award "In recognition of valuable contribution to Intel Mobile tform strategy" sia/CIS Special Recognition Award "In recognition of contribution to the first Intel					
		Major	Radio Physics				
	Ph.D	Research field	Stochastic signal processing				
	Dissertation Analysis of fast link adaptation techniques for OFDM wireless communication systems						
Education	Major Radio Physics						
	MS Research field Stochastic signal processing Dissertation Analysis of statistical characteristics of frequency-selective channel capacity						
	BS	Major	Radio Engineering				

Available term for consultation	1-3 week in august 2020	Available for trip to Korea	Yes				
Intellectual property Information	1.Korean Patent: BONE CONDUCTION SPEAKER KR101121170 (B1) — 2012-03-22 2.Korean Patent: LED LAMP WITH HEAT RADIATION MECHANISM USING CONVECTION CIRCULATION KR20110062822 (A) — 2011-06-10 3.USSA Patent (Author's certificate): ROTATOR № 1510543/1989.22. May 4.USSA Patent (Author's certificate): SLIDING DOORS OF HANGAR № 1497937/1989.01. Apr. 5.USSA Patent (Author's certificate): PROTECTIVE DOME № 1480388/1989.15. Jan. 6.USSA Patent (Author's certificate): WAY OF PUTTING A PROTECTIVE COATING ON AN ELASTIC HARNESS Nº 1417744/1988.15. Apr. 7.USSA Patent (Author's certificate): DOORS OF HANGAR № 1307734/1987.03. Jan.						
Category of Research (Choose 1 or more)	ME/MP						
Available field for consulting	developer of new technica	al systems, busin of productions ar a) is (South Korea, -Complect" (Rus pany: "KAMAZ" (any: "OCHAKOV ight Research Ins t bone. (South Korea) ts. (South Korea) ts. (South Korea) ts. (South Korea) South Korea) South Korea) city. (Russia) city. (Russia) city. (Russia) city. activity	2009, 2011, 2013) *** sia) (Russia). O" (Russia) stitute" (Russia) orea)/				

	 Development of methodical materials on TRIZ Development of methodical materials for business consulting 				
	• Dev	-			
		Major	Chelyabinsk state university (Chelyabinsk, Russia)		
	Ph.D	h.D Research field Manufactring Process			
		Dissertation	TRIZ-Master		
		Major	Public university of technical progress (Chelyabinsk,		
Education	MS	major	Russia)		
Education	1013	Research field	Manufactring Process		
		Dissertation	TRIZ-Expert (Diploma №39)		
			Kazan aviation institute (Kazan, Russia)		
	BS	Major	Engineer, Major in mechanic of aircraft construction		
			(Diploma BI №404325)		

Available term for consultation	free	Available for trip to Korea	Yes
Intellectual property Information	Internal Know-How		
Category of Research (Choose 1 or more)	ME (Material&Equipment), MP(Ma	nufacturing&Pro	oduction)
	commercialization in printed electr 2. Consultation fields - Silver pastes with nano- and mice - Printed devices; - Wearable electronics; - Force and bend	onics area (mat roparticles; meaningful inf	formation regarding sophisticated
Available field for cooperation	electroconductive interface betwee Physical properties: Low specific resistance 3*10-7 Oh Recommended sintering paramete 2) stencil printable non-pressur electroconductive interface betwee Physical properties: Low specific resistance 5*10-8 Oh Recommended sintering paramete Applications •Joining of large area Si chips with	en semiconducto m*m ers: <10 Mpa; <2 re paste that en semiconducto m*m ers: <240 °C	250 ℃ can be used as a thermo- a
Education	Bachelor Electronics engineerin	g	

Available term for consultation	One Week	Available for trip to Korea	Yes					
Intellectual property Information	-							
Category of Research (Choose 1 or more)	ME(Material&Equipment), MP(Ma	anufacturing&Produc	tion)					
Available field for cosulting	switching in various regions of th radiation powers of such lasers. Creation of high-power solid-state µm) pumped by diode-pumped hi In addition, work was carried out y and from which the highest contin al. Optics Commun., 1995, Vol. 1. Physical processes in a high-curre 1000 W) continuous radiation sou # Related Projects - Studies of ion-sound instability the development of which can lin using the methods of optical pla instability modes were studied. - A powerful effective source of c large total area has been created A powerful single-mode Nd: YAG conversion coefficient of radiation - Studies have been conducted or based on a titanium-sapphire la generation frequency to 280 nm, or region of 3-10 microns. A software nonlinear media in the generation - An original method has been pro mode locking in a solid-state lase of a Kerr lens in a doubling nonlin method allows you to widely cor frequency (1 ÷ 50 kHz) and increa - Issues of effective selection of th with longitudinal diode pumping w YVO4 laser has been developed, - A new physical effect was disco and mode locking, in which Q-sy frequency, and each train contain - We studied the parametric gene linear PPLN crystal with synchror	e generation spectru e lasers with nonlinea gh-power solid-state with the titanium-sap nuous radiation powe 22, P.40]. ent gas-discharge pla irces in the visible ar of a high-current dis nit the lasing power a sma diagnostics, the ontinuous long-range b laser was developed into the second harm of the creation of radia aser with the possib dye lasers, and also a e package has been of optical harmonics posed for implement er using a single trave ter using a single trave ter studied. A powe which in addition to h povered — self-organi witch pulse trains "s s equally spaced pic ration of the middle I nous pumping by a Q of \leq 10 GW / cm2.	phire laser, which has the widest tuning range, r of ~ 40 W was obtained to date [Donin V.I. et asma with the aim of creating powerful (~ 100– nd UV spectral regions. charge of low pressure have been completed, and shorten the life of ion lasers. In particular, e local dispersion characteristics of the lower e VUV radiation for processing samples with a ed with pumping by diode lasers and an 80% monic. tion sources that are widely tuned in frequency ility of intracavity doubling and tripling of its a parametric light generator with the adjustment developed for calculating the characteristics of s up to the fifth. ing the Q-switching modes and simultaneously eling wave AOM, as well as with the formation the case of a diode-pumped Nd: YAG laser, this on (3 ÷ 100 ps, 50 ÷ 500 ns), their repetition ÷ 108 times) pulsed laser power. thermo-optical distortions in a solid-state laser erful air-cooled single-mode diode-pumped Nd: igh power has a high optical efficiency (≈60%). zation of Q-switch solid-state laser generation pontaneously" form at a relaxation oscillation					

		Major	Physics
Education	Ph.D	Research field	high-power ion lasers

Available term for consultation	Free			Available for trip to Korea	Yes		
Intellectual property Information	DEVICE FOR MANIPULATING MICRO- AND NANO-OBJECTS, METHOD OF ITS MANUFACTURING AND CONTROL SYSTEM, № RU 2698570 C1, 2019.08.28						
Category of Research (Choose 1 or more)	NT(Nano Technology), ME(Material&Equipment), MP(Manufacturing&Production)						
Available field for cooperation	 Project Manager of "Nanoactuator" LLC, Researcher of Kotelnikov Institute of Radioengineering and Electronics (IRE) of Russian Academy of Sciences (RAS). Organization and management of the team of engineers and researchers. Writing scientific articles and patents for inventions. Work at the equipment: scanning electron microscope, electron lithography and focused ion beam microscope. Project promotion at the Russian and international conferences. Conducting industry analysis of the market and analysis of competitors. Attracting investment in the project. Preparation of presentations / analytical materials for investors and government representatives. Management of the team of the developers in the development of design documentation and the creation of prototypes. Attracting financing in the amount of 1 million dollars from the funds of the Russian Science Foundation and the Russian Fund of Fundamental Investigations Participation in international research projects and work abroad. \$ 0.5 million raised. For more than 3 years I have been successfully leading a team consisting of 5 developers in the project from the field of nano-robotics; I regularly participate at the international conferences as a speaker (more than 4 times a year) in Russia and abroad, and also carry out part of the project work abroad; I have about 40 scientific publications in peer-reviewed scientific journals, including Q1, and the Hirsch index = 7 in the Scopus system and Web of Science and 2 Patents; I have successful experience in attracting investments from international funds (BRICS, e-Asia, India, China, etc.) and domestic funds; received a technical education at the University Rankings 2020 rating. I must and abroad the Government of funds; I me laureate of the Award of the Government of Moscow 2017 in the nomination 						
		Major		echnology			
	Ph.D Research field Phase transitions, shape memory effect, three dimensional nanomanipulation, nanoinstruments development						
	Dissertation Phase transitions and shape memory effect at the nanoscale						
Education		Major	Nanote	echnology			
	MS Resea	Research field	Phase transitions, shape memory effect, three dimensional nanomanipulation, nanoinstruments development				
		Dissertation	Giant deformations in the intermetallics with shape memory effect at the micro- and nanoscales.				
	BS	Major	Nanote	echnology			

Available term for consultation	No deadlines anytime	Available for trip to Korea	No				
Intellectual property Information	Received several patents: for a calcium preparation (OSTEOL-FORTE), a patent for coatings destroying bacteria and viruses without chemicals, a patent for a design for converting solar energy into current and heat with high efficiency						
Category of Research (Choose 1 or more)	BT(Biology Technology), NT(M ME(Material&Equipment), MP(M		gy), ET(Environment Technology), oduction)				
Available field for cooperation	described in text) : 1974-1976. Magnitogorsk Iron production. 1976-1978. NII PRIVATE FIRI Institute - engineer. I developed titanyl sulfates using frequent thermodynamic memory of elect methods for their manufacture (> physicists at the opening of the 0 1979. Magnitogorsk High Schoo 1980. Magnitogorsk High Schoo 1980. Magnitogorsk Mining an sector. Within two months, he de corrosion resistance during stress 20 minutes, it became more that proposed a model of this phenor on a change in some technologi the criteria. The tests took place took up the decision to increas theory of lubricants for partid deformation. Developed a new proposed was tested at the Belor of rolls increased by a factor of thard alloys) - the lubricant allow X12M. 1982. All-Union Research Institt work on lubricants for the hardwa a new process. 1983. Institute of Metallurgy in Researcher. 1984. Institute of Metallurgy in Researcher. 1987. Cooperative EPK Dawn additives for lifeless friction. 1990. Cooperative Engineering cooperative, only their own proj distributed control systems for n plants, power engineering, etc.) ring networks with an extended individual nodes in this network, and management. Have a relia controllers based on the Intel 18 in the USSR) on the personal co 1994. Left Russia and began Sciences. He made reports at th the genome - on his work, at th	and Steel Wo M NIIPROINS (d a new method cy-impedance in trolyte solutions. > 100F / cc) is pro- Chelyabinsk Univ- d. Chemistry tead d Metallurgical ecided to increase ss-freezing for pro- in 600 hours, wh menon. The meth cal parameters a e at the Belorets is the resistance icularly severe classification of retsk Metallurgica thousands (and to we us to switch tute of the Hardware industry. Dev in the Academy Engineering. He ed the foundation TTM. n. Vice-chairman g and Commerce iects were develor nanaging particular are systems with exchange protoco other processing ibility of over 99 52.1851 single-co- mouter bus. working in Bulg e Bulgarian Acade he invitation of A					

	 From 2000 to 2008 he was engaged in chemistry and pharmaceuticals. In 2005, he began the development of drugs with a general effect on the processing of the genome in pathologies and other pharmaceutical projects (currently there are more than 15 drugs in the portfolio). 2011. Establishment of the ASCO PHARM company - the company focused on finalizing the OSTEOL-FORTE calcium preparation project and some other projects. Sales took place in the EU. I am the Deputy Director for Technical Issues. 2018. The company "ASCO PHARM" wins the acceleration program of business projects of the Ural Federal University. 2019. The company "ASCO PHARM" combined resources and efforts together with the largest Russian university - the Ural Federal University. Created a joint venture. 2019. The company "ASCO PHARM" begins the commercialization of the medicine "OSTEOL-FORTE" and expands its development portfolio. 2. Relate Networking: Member of the Academic Council of the Institute. (All-Union Research Institute of the Hardware Industry) - a member of the scientific council. At the moment: Scientific expert of the Innovation Development Fund of the Ural Federal University. 					
		Major	Sverdlovsk Institute of Electrochemistry of the Academy of Sciences			
	Ph.D	Research field	Thermodynamics and electrochemistry			
		Dissertation	Not finished graduate school			
Education	Education Мајог Свердловский Институт Электрохимии Академи Education Major УНЦ (Sverdlovsk Institute of Electrochemistry of the Academy of Sciences)					
MS Research field Thermodynamics and electrochemistry						
		Dissertation	Not finished graduate school			
	BS	Major	Magnitogorsk State Technical University G.I. Nosova. (then Mining and Metallurgical Institute named after Nosov (MGMI). Specialty Solid Fuel Chemical Technology			

Available term for consultation		1week		Available for trip to Korea	Yes			
Intellectual property Information								
Category of Research (Choose 1 or more)	•	terial&Equipment			blogy),			
Available field for cosulting	optimiz 2. Carr energy fatigue 3. Calc 4. Cor transfe 5. Mod Basic r The Ial own me and ei charac In its v center, own su In its r packag	Computer engineering modeling of processes in energy machines. Design mization and increase of efficiency; carrying out strength calculations by methods of computer modeling of buildings of rgy machines and mechanisms, rotors, etc. ; Determination of critical frequencies, gue and resource calculations; calculation of building structures; Computer modeling of physical processes: heat transfer, combustion, mass sfer, flow around gaseous and liquid media, etc. Modeling of fracture processes. ic research, experimentation and development laboratory "Engineering computer modeling and strength calculations" has its methods of high-precision computer modeling of physical systems, mechanisms energy machines; their optimization in order to increase the resource, racteristics and performance indicators. is work, the laboratory uses the capacities of the Polytechnic supercomputer ter, the third largest supercomputer center in Russia, as well as the laboratory's supercomputer. Is research and development, the laboratory uses both commercial software kages like ANSYS, Numeca, Comsol, IOSO, etc., as well as software products of own design.						
		Major	•	iter ScienceTech burg Polytechnic	nnical Sciences Peter the Great St. CUniversity			
	Ph.D	Ph.D Research field		Computer engineering modeling				
Education		Dissertation	-					
Education		-			-			
	MS	-			-			
		-			-			

Available term for c onsultation		5day		Available for t rip to Korea	Yes	
Intellectual property Information	-					
Category of Researc h (Choose 1 or more)	ME/MP					
Available field for co	The company "MONOROTOR" produces high-precision screw dispensers - devices that allow high-precision dosing of viscous substances. A feature of these devices is their versatility, in terms of the dosed substance. It can be liquids with any viscosity, from ordinary water to polymer sealants; various loose, p owdery materials can be dosed, but in the form of a paste. The device is also convenient from the point of view of automation of dosing processe s, application of various viscous materials on complex three-dimensional surfaces or us e in robotic systems. Technical specification of the 3D-printing machine for polymer reinforced material. The target technical specification of 3D printer Requirements can be divided into: - production speed; building 50ml per minute. - material requirements; - form requirements; - technological requirements; - reliability requirements; - reliability requirements; - reliability requirements; - reliability requirements; - the materials used in the manufacture of the socket must meet the following requirem ents: Resistant to water, weathering, UV rays; Have high wear resistance; High specific strength, rigidity and toughness; The material should be applicable for 3D printing (high thixotropy, life time less than 3 0 seconds, high adhesion). Table 1 - Planned characteristics of the material					
	Param	eter		Value	Units	
	Tensile	e strength, not less	5	120	MPa	
	Bendir	ng strength, not le	ess	100	MPa	
	Hardn	ess		40~60	Shor D	
	Densit	у		500~1100	kg/m ³	
	Workpiece Form Requirements: The shape of the workpiece should correspond to the geometry of the 3D model obtained after processing the stump shape from 3D scanning; Maximum workpiece dimensions: 200x200x300 mm. Reliability Requirements: The properties of the product should not deteriorate over the entire service life (up to 5 years) The product must be operated in daily use.					
	Major Red Diplomas of Engineering Technologies, Ba					
Education	Ph.DART IN METAL: The greatest technological difficulties in the production of a dispenser are caused by the processing of a screw gerotor pair. The technologies of the MONOROTOR company allow to create rotors with mass cross-section diar of about 4 mm in conditions of mass production. 2018 MULTI DISPENSER - 2: From sketch to industrial design. MONOROTOR company has developed a dual dispenser, w will allow to dose multicomponent substances: "base + hard or "base + dye." 2018 NEW MATERIAL: Dispensers "Monorotor" have a positive reputation in the testing of dosing chocolate. Dosing startegi					cessing of a OROTOR section diameter 2018 al design. lispenser, which base + hardener" a positive

		allows applying material in the form of tracks, a given thickness, points, complex spatial curves of variable thickness and various three-dimensional objects. 2018 TESTS OF DOSERS: In partnership with the Vindek laboratory, tests were carried out of the Monorotor screw dosers. Dispensers showed good repeatability, the identity of the results of dosing of the epoxy compound and withstood the specified volume ratio. 2018
	Dissertation	TECHNOLOGICAL ASSURANCE OF QUALITY FORMING O F CYCLOIDAL SCREW SURFACES DURING PROCESSING BY UNPROFILED TOOL ON MULTIPURPOSE MACHINES
	Major	-
MS	Research field	-
	Dissertation	-
BS	Major	Engineering Technologies

Available term for consultation	1week	Available for trip to Korea	Yes		
Intellectual property Information		-			
Category of Research (Choose 1 or more)	ME(Material&Equipment), NT(Nano Technology), MP(Manufacturing&Production),				
Available field for cosulting	 ME(Material&Equipment), NT(Nano Technology), MP(Manufacturing&Production), 1. Development of the design and general principles for controlling an integrated electrolysis unit for the simultaneous production of anolyte for disinfection of water and ferrate for disinfection of effluents 2. Creation and testing of energy-efficient mobile drives of sucker rod pumps (SHG) with an adaptive group control system for oil wells Basic research, experimentation and development 1. Development of a new method and technical solution for a prototype integrated electrolysis unit (KEA) for the simultaneous production of anolyte for disinfection of water and effruents, which allows to increase the environmental safety, productivity and quality of disinfection of water and effluents while reducing the cost of the process compared to existing technologies. Tasks to be solved: development of the structure and technological scheme of KEA, the control system and the functioning algorithm of KEA; development and research of prototype modules for the production of anolyte and ferrate and MEA control system; Development and research of the laboratory apparatus KEA, programs and methods for its esting in an industrial partner; development and research; development of a draft technical task for the ROC "Creation of an integrated electrolysis unit with a given capacity for the production of disinfecting agents for water and effluents". Scientific and technical result: The KEA laboratory unit allows producing up to 65 g / h of chlorine (up to 1.56 kg / day) at an energy consumption of up to 3.5 kWh / kg of chlorine and up to 25 g / h of chlorine and up to 25 g / h of chlorine and up to 25 g / h of chlorine (up to 25 g / h of chlorine and up to 3.5 m / j) and up to 10,000 / hour of wastewater (based on up to 2.5 m g / j). The prototype installation of industrial KEA allows producing up to 1040 g / h of chlorine (up to				

	 be inferior to the best domestic and foreign analogues, but should surpass them in energy efficiency and economy in terms of capital and operating costs. Scientific and technical result: Software for a single adaptive self-propelled guns, managing a group of 2 and 6 drives operating in asynchronous mode. An experimental sample of a group of 2 SHGN drives with a single adaptive self-propelled guns (1 pc.) For research tests at idle, with load simulation and full-scale tests by an industrial partner at the well, consisting of: experimental samples of single mobile drives SHGN in the amount of 2 pieces; an experimental model of a single adaptive self-propelled guns, managing a group of 2 drives operating in asynchronous mode; software for a single adaptive self-propelled guns. An experimental sample of a group of 6 SHGN drives with a single adaptive self-propelled guns (2 pcs.) For research tests at idle, with simulated load (1 pc.) And full-scale tests by an industrial partner at the well (1 pc.), Consisting of: experimental samples of single mobile drives SHGN in the amount of 6 pieces; An experimental sample of a group of 6 SHGN drives with a single adaptive self-propelled guns (2 pcs.) For research tests at idle, with simulated load (1 pc.) And full-scale tests by an industrial partner at the well (1 pc.), Consisting of: experimental samples of single mobile drives SHGN in the amount of 6 pieces; An experimental model of a single adaptive self-propelled guns, managing a group of 6 drives operating in asynchronous mode; experimental model of a single adaptive self-propelled guns, managing a group of 6 drives operating in asynchronous mode; software for a single adaptive self-propelled guns. 			
		Major	Mechatronic Engineering SpbSTU	
Education	Ph.D	Research field	Mechanics, Equipment, Material	
		Dissertation	-	

Available term for		Available for				
consultation	Free by appointment	trip to Korea	Yes			
Intellectual property Information	 Desublimation device No. 2011128135/05(041734) filing date 07/07/2011 Method of susceptibility adding to dyes for metallized polymeric products No. 2011124996/02(036910) filing date 17.06.2011 Desublimation device No. 2011128135/20(034415) filing date 6/8/2011 Category of Research 					
Category of Research (Choose 1 or more)	NT(Nano Technology)					
Available field for cosulting	Republic of Mordovia LLC (CNN Description: CNNRM is a member of a r established with a direct partici Educational Programs in the nanocenters that provide establis Regarding CNNRM I could provid technological fields. It is possibl terms of how some technology of cycles. 2. 02/2015 – until now "Technological Company "Liquid General Director (Project of Nar Mordovia LLC) Description: As a CEO of the company I hav the fields of industrial coatings, sized fluorine polymers) for paint 3. 06/2016 – 10/2019 Deputy Director, Director of the Nanomaterials of the Republic of 03/2015– 06/2016 "Center of Nar Mordovia" LLC — Project Manag 06/2014 – 02/2015 Investment N Group of Companies "SYGMA.T 03/2013 – 06/2014 Project offic Rosnano of the Group of Compa Description: 8-years of experience in the fie process helping applicants to ge Consultation fields Project management issues: - Consulting service of Strategic - Financial analysis of projects - Technology condition and read - Adjustment of project document - Ability to arrange meetings with ect. Technology issues: - Industrial coatings, paints mainf antistatic properties.	RM) network of nand pation of the Re Russian Fede shment and deve de to applicants le to use the ne can be impleme d-phase Nanoco notechnology an re an opportunity functional addi ts, thermosets, a Project Office of f Mordovia LLC anotechnology an ger Manager (Tomsk omsk" LLC) se senior analys inies "SYGMA.T eld of technologi t expertise and of business plannin iness to transfer tation to make it so n potential techn ly with anti-ice, h anotubes, fluorir	f the Center of Nanotechnology and nd Nanomaterials of the Republic of Center of nanotechnology Rosnano t (Tomsk center of nanotechnology omsk" LLC) cal startups building and launching consultations. ng, technology market place. suitable for investor's compehension. ology consumers, experts, investors hydrophobic, high corrosion resistant, ne containing materials) for different			

	 Member of nanotechnology centers (nanocenters) established with direct participation of the Rosnano Fund for Infrastructure and Educational Programs in the Russian Federation. Expected effect Applicants can get the methodologies how they can logically prepare proposal for the government grant program. Improve product quality and manufacturing by functional additives Reduce loss and cost saving thru process optimization Common work 			
	MS	Major	Nanomaterials	
Education		Research field	Direct fluorination, fluorine containing products, industrial hydrophobic coatings	
		Dissertation	Modification of Ultra-High Molecular Weight Polyethylene	