

Chickrin Dmitry, Ph.D., Prof., Faculty Dean, Laureate of National Zavoisky Physical Award, Laureate of National «Engineer of the Year» Prize, Full Member of Academy of Navigation and Motion control

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FACULTY DEAN, IT DIRECTOR AND EXPERT, IT AND TELECOMM EXPERT, SYSTEM ARCHITECT

SOFTWARE / HARDWARE DEVELOPMENT ☐ SCIENTIFIC RESEARCHES ☐ SYSTEMS ENGINEERING

- ☐ **Experienced project manager, engineer and scientist offering 19 years of success leading all phases of diverse technology projects;** Faculty Dean – Artificial Intelligence, Robotics and System Engineering (AIRSI), Kazan Federal University; Director of KFU Strategic Priority #4 (IT, AI and Robotics) – Priority 2030 Program; Dr.Sc., Prof.; M.Sc., M.Art. and Ph.D. credentials; 18-years complex system engineering and 18 years of computer programming; 18-years of teaching mastery in the fields of expertise. Laureate of National Zavoisky Physical Award. Laureate of National “Engineer of the Year” Prize.
- ☐ **Business strategist;** plan and manage million-dollar projects (up to 5 million USD per project) aligning business goals with state-of-the art technology solutions.
- ☐ **Excellent communicator;** leverage technical, business and financial acumen to communicate effectively with client executives and their respective teams.
- ☐ **Expert in agile and waterfall project management methodologies.** Able to manage medium-to-large project teams (up to 400 men) and known for high-quality deliverables that meet or exceed timeline and budget targets.



Skills Summary

| Project | Research Activities: | IT Project Lifecycle: | Value-Added |
|----------------------------------|--|-----------------------|------------------------|
| Management: | - RTLS, SLAM, Inertial and Satellite | Requirements Analysis | Leadership: |
| Systems Engineering | Navigation Systems | | Cross-Functional |
| - Big Data, Data Mining | Tech Writing Supervision | | |
| Waterfall/Agile | - ADAS systems and vehicles automation | | Team Building & |
| - Wireless and Sensor Networking | Project Scheduling | Mentoring | |
| Enterprisewide and | - Radiolocation and Antenna Techniques | | Business & IT Planning |
| Governmentwide | - Sound and Speech Analysis | Testing/QA/Rollout/ | Vendor Management |
| Implementations | - DSP and Stochastic Analysis | Support | Fluent Russian/English |

Career Progression

R&D Center “Integral Plus” (Kazan), **WIRELESS SYSTEMS ENGINEER**, 2006.
R&D Center “RadioElectronix” n.a. Shimko (Kazan), **SENIOR SYSTEM ENGINEER**, 2006 to 2008
R&D Center “Navigation Technologies” (Kazan), **CTO**, 2008-2014
Kazan State Technical University n.a. Tupolev (Kazan), **ASSISTANT**, 2008-2012
Kazan Federal University, ITIS Higher Institute, **SENIOR LECTURER IN TELECOMM. PROFILE**, 2012-2013
Kazan Federal University, ITIS Higher Institute (Kazan), **ASS. PROF., HEAD OF ROBOTICS DEPT.**, 2013 to 2014
Kazan Federal University, ITIS Higher Institute, **DEPUTY HEAD OF INSTITUTE IN SCIENCE**, 2015.
Kazan Federal University, Institute of Physics, Division of Radiophysics and Information Systems, Radiophysics Department, **ASS. PROF., DEPUTY HEAD OF DIVISION IN BUSINESS ACTIVITIES**, 2016-2019.
KAMAZ R&D Center, **DEPUTY HEAD OF STAFF IN VEHICLES AUTOMATION**, 2016-2020.

KAMAZ-KFU R&D CENTER, **HEAD OF STAFF**, 2018-2020.

Head of KFU Institute of Physics Cyberphysics Dept., 2019-2021.

Head of KFU AI and neurotechnologies center for medicine, 2019-2021.

Head of KFU Digital Transformation Center, 2020-2022.

Director of Institute of Computational Mathematics and Information Technologies, KFU, 2020-2023.

Director of Institute of Artificial Intelligence, Robotics and System Engineering (AIRSI), KFU, August 2023 **TILL NOW**.

Director of KFU Strategic Priority #4 (IT, AI and robotics) – Priority 2030 Program, 2021 **TILL NOW**.

CEO Advisor on IT of Kazan Helicopters, 2022 **TILL NOW**.

Representative Projects (2008 to 2022)

Government-wide projects (all project were performed successfully without deadline shifting):

1. Contract from KAMAZ PTZ on ADAS 4+ level system for truck vehicles, haul-dump trucks and intellectual infrastructure automation: "Golem".
2. Government Contract on complex R&D: «Design of complex software platform for Russian-wide dedicated control and monitoring of critically dangerous and important cargo and all classified infrastructure objects movements» - federal wide GIS-oriented complex infrastructure software system.
3. Government Contract on complex R&D: «Design of complex software platform for Russian-wide monitoring and control of all types of special teams, compliant infrastructure objects and administration personnel» - federal wide GIS-oriented complex infrastructure software system.
4. Government Contract on custom engineering and further supplying: «Irbis-D – wearable complex of telescopic hybrid videosurveillance system for task forces».
5. Government Contract on custom engineering and further supplying: «Irbis-K – special rugged command-and-control workstation and software framework for monitoring and control of tactical operations».

Major scientific-based projects (all project were performed successfully with full KPI):

1. OpenLab «Andromeda» - SDI virtualization complex software framework – 7 KFU members, in collaboration with Russian Academy of Sciences.
2. OpenLab «Rainbow»: Image fusion and multispectral imaging – 12 KFU members.
3. OpenLab «Crown»: Fractal antennas and antenna arrays – 10 KFU members, in collaboration with Cisco Systems.
4. OpenLab «Flywheel»: High-density kinematic energy storage – 7 KFU members, KFU-only.
5. OpenLab «Ariadna»: Navigation systems for autonomous platforms – 8 KFU members, in collaboration with Russian Academy of Sciences and Royal Imperial College.
6. Project «Murometz»: Bipedal locomotion on complex terrains – 12 members, KFU-only.
7. Project «Altius-FA»: Fractal antennas and antenna arrays for modern UAV, 10 members, KFU-only.
8. Project «Butterfly»: Perimeter intrusion detection MEMS-accelerometer based system, 12 members.
9. Project «Phoenix»: Perimeter intrusion detection system based on vibration-sensing cable, 20 members.
10. Project «Odyssey» – ADAS 4+ level system for truck vehicle automation, 70+ members.
11. Project «Samson» – ADAS 4+ level system for haul-dump truck (mining) automation, 40+ members.
12. Project «Satellite» - Onboard multimedia and online-diagnosis system for nowadays KAMAZ trucks, 20+ members.
13. Project «Ergo» - complex CAD-like automation system for fast developing and manufacturing of antennas systems for 4G+, 5G based stations, 10 members, in collaboration with Huawei.
14. Project «Lily» - top-class voice recorder software for iOS, Android – with unique functionality of noise cancellation, complex speech processing and recordings optimization. Twice chosen by Apple on the main page of Russian AppStore as "Our finding"; consistently stays in the top1-3 of Business AppStore app list. 15 members in the team.
15. Project «Alphabet Owls» - universal multi-language education platform with unique speech recognition and speech processing engine in internals; regularly stays in the top of Education and Kids AppStore list. 25 members in the team.
16. Project «Fidelity» - R&D of new generation UHF radiostations with noise cancellation and advanced speech processing, 18 members.
17. Project «Avicenna» - complex AI-based expert decision making-system in the field of individual health monitoring based on KDL analysis and automatic processing of image-based analysis (radiography-based, echography-based), 35 members.
18. Project «Mirror» - stack of mobile corporate platform services and smart IoT devices (iOS and Android compatible) of individual and group health monitoring for the cases of biological or ecological awareness, 30 members.
19. Project «Studerus» - speech and voice correction iOS/Android-based platform for foreign students.

Key features

Key features as PM

- Creation and led of balanced teams across different broad technical, scientific and business disciplines. Focused teams on business objectives and tracked progress to ensure project milestones were completed on time, on budget and with the desired results.
- Mitigated risk factors through careful analysis of current tech. progress and previous statistical data. Anticipated and managed change effectively in rapidly evolving requirements and extremely tight time ranges.
- Defined processes and tools best suited to each project. Moved between agile and waterfall approaches depending on project specifics and client goals, creating detailed project road maps, plans, schedules and work breakdown structures.

Key features as researcher

- Strong background – official representative of Kazan Scientific School of unconventional RadioEngineering and Stochastic Analysis.
- Wide range of interests with deep expertise and extensive real life project implementations – from indoor navigation systems to machine vision and swarm-based artificial intelligence.
- Significant research progress – more than 80 journal publications and patents in the 2010-2019 years.
- Wide range of specific skills – ultra-fast reading in English and Russian (about 2000 words per minute); programming experience in 10+ languages (MATLAB, VHDL, Delphi, Python, C/C++, Assembler, MathCAD, BASIC, LISP, FORTRAN etc).

Key features as society member

- 36 years, married for 15 years, one daughter. Loyal to his family, friends and colleagues, creative.

Education & Credentials

B.Sc. in the field of Telecommunications, Kazan State Technical University n.a. Tupolev (Kazan, RF), 2006

M.Sc. in the field of Telecommunications, Kazan State Technical University n.a. Tupolev (Kazan, RF), 2008

M.Art in the field of High School Teaching, Kazan State Technical University n.a. Tupolev (Kazan, RF), 2008

Ph.D. in the field of Telecommunications, Kazan State Technical University n.a. Tupolev (Kazan, RF), 2013

Doctor of Science Degree in the field of System Theory and Analysis, Kazan Federal University, 2022.

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