

Aidar Alimbayev

Electronics Engineer

Contact

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LinkedIn

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Github

<https://github.com/AidarAlimbayev>

Tech. Skills

Programming skills:

Linux, Bash
C/C++
Python, NumPy, Pandas
MATLAB, Octave, Simulink
LabVIEW
Visual Studio Code
ARV, Atmel, STM32

CAD systems:

Altium Designer
EagleCAD
EasyEDA
Multisim
AutoCAD
Fusion 360
National Instruments Toolkits

CNC Machining:

3D printers, FDM, SLS, SLA
3-axis CNC Shopbot
Laser Engraving Machines
CNC Milling Machines

Objective: Electronics Engineer with 3 years experience in efficiency enhancement. Fully versed in electronic design, embedded controller development, and hardware and software design. Accustomed to wide variety of technologies in advanced multi-disciplinary engineering organization.

Education

- 09-2015 - **Master in Technologies**
06-2017 *The Bonch-Bruевич Saint-Petersburg State University of Telecommunications, Saint-Petersburg, Russian Federation*
Department of Radiotechnologies of Communication
Research project of dissertation: **Modeling of signal detectors in radio engineering systems**
- 09-2010 - **Bachelor in Technologies**
05-2015 *Saken Seifullin Kazakh Agro Technical University, Department of Power Engineering, Nur-Sultan, Kazakhstan*
Radio Engineering, Electronics and telecommunications
Theme of the graduation project: **The construction of a model for the transmission of microwave signals through inhomogeneous propagation media**

Scientific Publications

- 2017 - **Alimbayev, A. S.**, Uss, V. S., Mirmanov, A. B., & Shumakov, P. P. (2017, June). SIBCON **Test stand for prospective mobile power-supply sources**. In *2017 International Siberian Conference on Control and Communications (SIBCON)* (pp. 1-3). IEEE.
- 2015 - Baiguanysh, S. B., Mirmanov, A. B., **Alimbayev, A. S.**, & Makartseva, A. Y. SIBCON (2015, May). **Implementation of PPM modulation and demodulation using NI Digital Electronics FPGA Board**. In *2015 International Siberian Conference on Control and Communications (SIBCON)* (pp. 1-4). IEEE.
- 2019- Mirmanov, A.B., Nabiev, N.K., **Alimbayev, A.S.**, & Zhanturin, R.M. (2019). January **Impact of IoT technologies on devices for determining the weight of cattle**. Trends in the development of science and education, (55-3), 28-35.
- 2021 - Mirmanov, A., **Alimbayev, A.**, Baiguanysh, S., Nabiev, N., Sharipov, A., ASTESJ Kokcholakov, A., & Caratelli, D. (2021). **Development of an IoT platform for stress-free monitoring of cattle productivity in precision animal husbandry**. *Advances in Science, Technology and Engineering Systems Journal*, 6(1), 501-508.

Advanced training courses

- 2015 Core 1,2,3. LabVIEW Application Development. Design, implement, test and deploy applications.
- 2015 LabVIEW DAQ. Data acquisition and signal conditioning.
- 2016 LabVIEW RF Application Development. Development of HF applications.
- 2016 Radioelectronic measurements of microwave. Electrotechnical University "LETI".

Soft Skills

Team Leadership
Supervising
Public Speaking
Communications
Jira Administrator

Languages

Kazakh
Russian
English

Personal Qualities

Generating new ideas, innovative, focused, excellent verbal & written communication skills, able to work in teams and supervise it, knowledge of the latest technological advancements in automation and related industries.

Personal Interests

Rowing
Running
Hand-to-hand combat
Sambo (martial art)
Marathon 42.2 in 3:58

Work and Research Experience

08-2021	Research Assistant
Current	MES Research Grant Infections spread forecast by use machine learning models <ul style="list-style-type: none">Machine Learning algorithmsData preparing and analysis
06-2018	Electronics Engineer
08-2021	<i>Electronics Lab., PI “NURIS” Nazarbayev University, Nur-Sultan, Kazakhstan</i> <ul style="list-style-type: none">Designed and assembled circuits to complete simulation and verification testingPrepared board layout with schematic capture and simulationTracked information to prepare reports and update files for procedural guidelines.
09-2017 -	Teaching Assistant
05-2018	<i>Department of Radio Engineering, Electronics and Telecommunications, Saken Seifullin Kazakh Agro Technical University, Nur-Sultan, Kazakhstan</i> <ul style="list-style-type: none">Alleviated learning gaps and effectively instructed students on Digital Signal Processing and Computer Modelling practices through introduction of cutting edge educational tools and teaching aids
05-2016 -	Leading Researcher
06-2017	<i>Scientific and educational center "Technologies of information-educational systems", The Bonch-Bruevich Saint-Petersburg State University of Telecommunications, Saint-Petersburg, Russia</i> <ul style="list-style-type: none">Wrote research papers, reports, reviews and summaries regarding about automatization systems. Developed devices and stands, conducted workshops and training courses.
05-2013 -	Engineer, laboratory manager
08-2015	<i>Department of Energy, Saken Seifullin Kazakh Agro Technical University, Nur-Sultan, Kazakhstan</i> <ul style="list-style-type: none">Maintained laboratories and assisted professors in courseworks.Worked cross-functionally within organization and support for professors, students and staff.Managed electronic laboratories and maintained equipment
05-2011 -	Military service
05-2012	97617 military unit of Air Defense Forces, village of Pervomaiskie Prudy, Almaty. Kazakhstan <ul style="list-style-type: none">Urgent service in the ranks of the Military Forces of the Republic of Kazakhstan.