

ALEKSANDR MIRLENKO

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EMPLOYMENT HISTORY

Automation Project Engineer, ABB

[Jan. 2019 – Present \(Kaliningrad, Russia & Ostrava, Czech Republic\)](#)

For Marine & Ports:

- developed and tested ABB 800xA control software using functional design specifications and P&ID (Global 1 Cruise Vessel);
- developed library solutions for control software (Vessel Shore Connection R&D);
- designed and configured HMI graphics, wrote function description.

For Process Industries:

- developed and configured software and HMI for Data Center (Modiin, Israel);
- upgraded the Pulp & Paper plant HMI graphics (the SAICA project, Spain).

Automation Project Engineer, System-Service

[Oct. 2017 – Dec. 2018 \(Saint Petersburg, Russia\)](#)

- Developed, analyzed and reviewed PLC (Siemens SIMATIC) and SCADA programs (WinCC, TIA Portal) for Gas Turbines (Compressing Units for Onshore Pipelines);
- conduct Startup and Commissioning at the Boosting Compressor Station (Zapolyarnaya gas condensate field beyond the Arctic Circle).

Master's Thesis Position, School of Energy Systems, LUT

[Jan. 2017 – Aug. 2017 \(Lappeenranta, Finland\)](#)

- Research and development of Electrically Excited Synchronous Motor control system in Matlab Simulink;
- the project results are presented in the Master's Thesis 'Control of EESM in the field weakening range'.

EDUCATION

Lappeenranta University of Technology (LUT), Finland
Saint Petersburg Electrotechnical University 'LETI', Russia

[Master of Science, Electrical Engineering, Aug. 2017](#)

Due to Double Degree program, I hold master's degrees from both Universities.

Saint Petersburg Electrotechnical University 'LETI', Russia

[Bachelor of Science, Electrical Engineering, Jul. 2015](#)

DATA ANALYSIS AND MACHINE LEARNING TRAINING

Link to projects and certificates: github.com/Mirlenko

Apr. 2020 – present (Online Courses)

- Machine Learning and Data Analysis Specialization (6 courses by Moscow Institute of Physics and Technology & Yandex);
- Machine Learning (Stanford University);
- Deep Learning (Moscow Institute of Physics and Technology);
- SQL for Data Science (University of California).

SKILLS & LANGUAGES

PLC programming

Siemens SIMATIC

ABB 800xA

HMI & SCADA

Commissioning

Software Development

Data Analytics

Machine Learning

Deep Learning

Python

pandas & numpy

scipy & statsmodels

matplotlib & seaborn

scikit-learn

tensorflow & keras

Git & Atlassian tools

SQL & PostgreSQL

Embedded C

Matlab

Russian – Native

English – Proficient

Finnish – Basic