

Aleksei Mashlakov

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28 years - Work Permit A



Resumé

Experience

- September 2017– **Junior Researcher**, *LUT University*, Lappeenranta, Finland.
September 2021 ◦ Conducting research in flexibility management at national and European H2020 projects
July 2016 – **Industrial Design Intern**, *Schneider Electric*, Moscow, Russia.
August 2016 ◦ Redesign and major update of two PRM portals in Industrial Automation unit
June 2015 – **Project Manager Assistant**, *ABS Electro*, Moscow, Russia.
December 2015 ◦ Conformance inspection of technical requirements and proposals

Education

- 2017–2021 **D.Sc. (Tech) in Energy Market and Solar Economy**, *LUT University*, Finland.
◦ 6 month research exchange to School of Computing, University of Leeds, UK
2015–2017 **M.Sc. (Tech) in Electrical Engineering**, *LUT University*, Lappeenranta, Finland.
◦ Double degree programm with NRU MPEI, Russia, *With Honors*
2011–2015 **B.Sc. (Tech) in Electrical Power Engineering**, *NRU MPEI*, Moscow, Russia.

Projects

- 2021 **Battery techno-economic optimization**, *Publication*.
◦ Applied ML and SO for multi-objective predictive management of battery storage
2021 **Battery flexibility bidding to reserve market**, *DOMINOES H2020 project*.
◦ Applied ML and MILP for predictive bidding of battery storage to reserve market
2020 **Prosumer flexibility optimization**, *Publication*.
◦ Applied MILP for techno-socio-economic optimization of prosumer battery storage
2020 **Multivariate probabilistic energy forecasting**, *Publication*.
◦ Applied DL models to several energy forecasting problems

Skills

- Coding Python, R, \LaTeX , Bash
ML operations Pandas, GluonTS, Keras, PyTorch, Tensorflow, Sklearn, Hyperopt
OR software cvxpy, cvxr, cvxstoc, I-EPOS, scipy, cvxpower
Workflows OOP, CI/CD, EDA, multithreading, asynchronous programming
Web Development Flask, Tornado, Grafana, Influx, Redis
CI/CD Docker, conda, Git, pytest
Soft skills presentation, teamwork, divergent thinking, self-management, perseverance

Languages

- English Proficient user (TOEFL 95)

Interests

- Professional Data-driven decision making, digital energy democracy, virtual power plants
Leisure Travelling, Movies (Science-Fiction), Photography
Sport Football, Volleyball, Cycling, Gym