

Daniil Aktanka

Sustainable Systems Engineer



daniil-aktanka



akthonka



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EXPERIENCE

STM MINERALS AG TECHNICAL ASSISTANCE ENGINEER

Aug 2020 - Jul 2023 | Baden, CH

- conceptualized, researched, designed, developed and successfully implemented an IoT industrial product for PLC sensor readout data storage and transmission for remote locations (ft. a MariaDB database and Grafana dashboard)
- created a 3k+ MATLAB App Designer software application tool for mill sizing (for sales and engineering)
- Assessed and systematized the methodology for grinding-media filling-level computation. Researched and introduced additional uncertainty correction methods to account for slurry density variation using 3D linear data extrapolation. Collaborated on the industrial product design solution.

ENGINEER INTERN

Aug 2019 - Jul 2020 | Baden, CH

- Investigated the temporal relationship between strain-gauge voltage and grinding-media filling-level. Performed data cleaning and analysis in python via pandas and XGBoost machine learning.
- Designed and developed a VBA UserForm script (1k+ lines) for efficient document parsing and automation. Simplified commissioning engineers' workflow and improved team's performance by reducing test-report document processing time by $\approx 83\%$ per project.
- Assisted in electrical-engineering document standardization. Designed and created standardized templates for piping and instrumentation diagrams.

PROJECTS

POWER FLOW SIMULATION ANALYSIS | PYTHON

2023

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CUSTOM FIRMWARE/HARDWARE KEYBOARD | C

2022

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EDUCATION

MSC TECHNOLOGY MANAGEMENT

Sep 2023 - 2024

UNIVERSITY COLLEGE LONDON

MANAGEMENT ESSENTIALS COURSE

Jul 2022

HARVARD BUSINESS SCHOOL

ONLINE

BSC SUSTAINABLE SYSTEMS ENGINEERING

Sep 2020 - 2023

UNIVERSITY OF FREIBURG

SKILLS

PROGRAMMING

Experienced:

Python • MATLAB • \LaTeX

Familiar:

SQL • VBA • git • C • shell

SOFTWARE

Profficient:

Microsoft Office • Visio • Adobe Photoshop/Lightroom

LANGUAGES

Native/C1:

English • Russian • German

Confident/B2.1:

French

INTERESTS

HOBBIES

Photography • Art