

Shahab Sabzi

Budapest (Hungary)

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[LinkedIn](#)



SKILLS

- MATLAB (Simulink, Simscape)
- Power electronic systems (inverter, converter, switching circuit topologies, gate drivers)
- Python (NumPy, Pandas, matplotlib, pondapower, PyPSA)
- Electric vehicles powertrain
- Battery management system (BMS), Energy management system (EMS)
- Controller system design (linear, non-linear, robust, multi-variables)

EXPERIENCE

Jan 2017 to Jun 2019

Power Electronics Researcher

Shiraz Uni. Tech.

Shiraz – Iran

- Power electronics systems design and simulation in MATLAB
- DC-DC converters used in electric vehicles
- Model predictive control for power electronics
- Technical report writing and article writing
- Power quality standard writing

March 2015 to March 2016

Electric Drive Intern

Isfahan Railway Organization

Isfahan - Iran

- High power electric drive design for Isfahan city metro
- Controller design using non-linear control methods
- Technical report writing for the project
- Proposal writing

EDUCATION

PhD in Electrical Engineering

Budapest University of Technology and Economics

Expected graduation date: 2023

- GPA: 4.96/5 GPA (Excellent)

MSc in Electrical Engineering (Power Electronics)

Arak University of Technology

March 2016

- GPA: 92.5/100 (Excellent)
- Ranked 1st in the class

LANGUAGES

English (Proficient)

German (Beginner)