GURAY OZGUR

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EDUCATION

University of Tübingen 09.2021 - now
Machine Learning, MSc *Tübingen, DE*
GPA: 1.77/1.0

Korea Advanced Institute of Science and Technology 08.2018 - 01.2019
School of Electrical Engineering *Daejeon, KR*
Exchange Semester

Middle East Technical University 09.2016 - 07.2021
Mathematics, BSc *Ankara, TR*
CGPA: 3.53/4.00 (German Grade: 1.71)

Middle East Technical University 09.2015 - 07.2021
Electrical and Electronics Engineering, BSc *Ankara, TR*
CGPA: 3.43/4.00 (German Grade: 1.85) | ABET-accredited

Eskişehir Anatolian High School 09.2011 - 06.2015
Focus on STEM *Eskişehir, TR*

EMPLOYMENT

Master Thesis Student 04.2023 – 10.2023
Siemens AG *Erlangen, DE*

Electronics Development Engineer 06.2022 – 03.2023
Neura Robotics GmbH *Metzingen, DE*

Machine Learning Intern 02.2021 - 04.2021
Kuartis Technology and Consulting *Ankara, TR*

Embedded System Intern 06.2018 – 08.2018
Darkblue Telecommunication Systems *Ankara, TR*

SKILLS

Programming Languages	Python, MATLAB, C, C++, Verilog
Libraries	PyTorch, sklearn, matplotlib, pandas, Keras/TensorFlow, OpenCV
Tools	Linux, Git, LaTeX, LTspice, Altium Designer, Raspberry Pi, Arduino
Soft Skills	Communication, Teamwork, Problem Solving, Self-management
Natural Languages	English (C2), Turkish (Native), German (A2-B1)

DEMO PROJECTS

Hodgkin Huxley Model in MATLAB (An example of mathematical modelling)
Explanation: Implementing a software code to model the excitable membrane of an axon using the Hudgkin-Huxley (H&H) network model based on the rate constants for ionic channel conductivities determined by H&H.
See from here: GitHub

A Literature Review on Voltage References (An example of documentation)
Explanation: A comparison of 30 SOTA Voltage Reference Circuits published in the last 10 years (2010-2020).
See from here: GitHub

Capstone Project (An example of teamwork and leadership)
Explanation: An engineering design project I have worked on for a two semester course within a team of 5 students in my studies. I acted as the team leader for our project, and we have designed and implemented a product for a given problem under the supervision of Assoc. Prof. Fatih Kamışlı. The project report includes our top-down design process, analyses of the performance tests, as well as the drawings and pictures of the final product. Repository also includes scripts for training a model, running it on a Raspberry Pi and Arduino.
See from here: GitHub

Real-Time Applications of DSP in MATLAB and LabVIEW
(An example of implementing the signal processing tasks on a real-time embedded platform)
Explanation: Signal processing theory & practice applied to real-world problems, with emphasis on practical applications & real-time processing in embedded systems. MATLAB & LabVIEW is used for hands-on experience & gain knowledge & skills to implement DSP projects on embedded platforms. MATLAB, LabVIEW and C are used for implementing the signal processing tasks on PC and real-time embedded platform NI myRIO. See from here: GitHub