

Muhammed Samil Arınc

Electrical and Electronics Engineer

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EDUCATION

Bilkent University - Ankara, Turkey Senior Bachelor Student in Electrical and Electronics Engineering	Sep. 2018 - Jul. 2023
Friedrich-Alexander-Universität - Erlangen, Germany Erasmus Student for Summer Semester	Apr. 2022 - Aug. 2022

EXPERIENCE

Embedded Software Candidate Engineer - Akdogan Tech - Ankara, Turkey Working on the design of communication protocols, working on custom Linux distributions, FPGA programming. Using C++, Python, Yocto.	Nov. 2022 - Current
Summer Training at Sensemore - Istanbul, Turkey Implemented communication protocol SMWiredPy which makes chip update easier, Optimized telemetry calculating algorithms, Used C++ and Python.	Jun. 2021 - Aug. 2021
Laboratory and Teaching Assistant - Bilkent University Helped students on lab tasks and term projects for "Digital Design" course, Used VHDL and Vivado.	Sep. 2021 - Jan. 2022

EXTRACURRICULAR ACTIVITIES

President of Bilkent Programming Club Coordinating activities and organizing lectures	Jul. 2021 - Apr. 2022
Turtle Project Coordinator Formed and led a team to work on design and manufacture of autonomous car, worked on perception systems using PyTorch and YOLOv5.	Jul. 2021 - Mar. 2022
Head of Technique at KFLMUN organization Designed webpage and organized technical activities for Model United Nations organization.	Apr. 2017

PROJECTS

Smart Home System Working on the Facial Recognition powered door lock, MQTT communication, database implementation. Using Raspberry Pi, Firebase, Python, TFLite.	Feb. 2023 - Current
Spoken Number Recognition Designing an Analog Circuit and digital modules to take input from microphone and process it as a sampled digital signal. Using Artix-7 FPGA, VHDL, Vivado.	Feb. 2023 - Current
DL Framework (Project Link) Implemented a deep learning framework from scratch. C++, CUDA, Python used.	May. 2022 - Jan. 2023
Music Genre Classification (Project Link) Implemented several Machine Learning and Deep Learning algorithms, used Python.	Sep. 2021 - Jan. 2022
Charging Lane Designed a prototype road which has inductors placed under it. Provides charge to electric cars.	Sep. 2021 - Jan. 2022
SMWiredPy (Project Link) Developed the SMCom UART communication protocol, binded its codes from C++ to Python.	Jun. 2021 - Aug. 2021
Simple Elevator (Project Link) Designed a basic elevator model with KL25-Z board and simple components.	Feb. 2021 - Jun. 2021
Chameleon Robot (Project Link) Created a robot moving with servo legs and changing its color according to floor.	Sep. 2020 - Dec. 2020
TRC-10 Transceiver Implemented a simple transceiver circuit with many components.	Mar. 2020 - Jun. 2020

LANGUAGES

Turkish (Native), **English** (Professional Working Proficiency), **German** (Beginner), **Arabic** (Beginner)

ACHIEVEMENTS AND CERTIFICATES

Bilkent University Comprehensive Scholarship	Sep. 2018 - Current
High Honour Student	Jan. 2020, Jun. 2020
IELTS Score 7.0/9.0	Feb. 2019
Ranked 562 among 2 million students in National University Entrance Exam (YKS)	Jun. 2018

SKILLS

Extracurricular Courses Taken: Microprocessors, Machine Learning, Deep Learning, Robotics, Computer Networks
Programming Skills: C, C++, Python, CUDA, VHDL, Assembly, MATLAB, PyTorch, Tensorflow
Developer Tools: Linux, VSCode, Vivado, Anaconda, Arduino, Git, Proteus, LTspice, Yocto, SolidWorks