Muhammed Şamil Arınç

Electrical and Electronics Engineer

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EDUCATION

Bilkent University - Ankara, Turkey   **Sep. 2018 - Jul. 2023**
Senior Bachelor Student in Electrical and Electronics Engineering

Friedrich-Alexander-Universität - Erlangen, Germany   **Apr. 2022 - Aug. 2022**
Erasmus Student for Spring Semester

EXPERIENCE

Summer Training at Meteksan Defence - Ankara, Turkey   **Jun. 2023 - Jul. 2023**
Worked on ULAQ AUSV embedded software, Used C++, Python and Java.

Embedded Software Candidate Engineer at Akdogan Tech - Ankara, Turkey   **Nov. 2022 - Jun. 2023**
Worked on Meteksan Ulaq project as subcontractor, implemented socket and serial communication libraries.
Used C++, Python, Yocto.

Summer Training at Sensemore - Istanbul, Turkey   **Jun. 2021 - Aug. 2021**
Developed the serial communication protocol SMCom, Optimized telemetry calculating algorithms.
Used C++ and Python.

Laboratory and Teaching Assistant - Bilkent University   **Sep. 2021 - Jan. 2022**
Helped students on lab tasks and term projects for "Digital Design" course, Used VHDL and Vivado.

EXTRACURRICULAR ACTIVITIES

President of Bilkent Programming Club   **Jul. 2021 - Apr. 2022**
Coordinated club activities and organized lectures for students

Turtle Project Coordinator   **Jul. 2021 - Mar. 2022**
Formed and led a team to work on design and manufacture of autonomous car, worked on perception systems
using PyTorch and YOLOv5.

PROJECTS

Smart Home System (Project Video)   **Feb. 2023 - Jun. 2023**
Worked on the Facial Recognition algorithm for door lock, MQTT communication, database implementation.
Used Raspberry Pi, Firebase, Python, TFLite.

Spoken Number Recognition   **Feb. 2023 - Jun. 2023**
Designed an Analog Circuit and digital modules to take input from microphone and process it.
Used Artix-7 FPGA, VHDL, Vivado.

Deep Learning Framework (Project Link)   **May. 2022 - Jan. 2023**
Implemented a deep learning framework from scratch. C++, CUDA, Python used.

Music Genre Classification (Project Link)   **Sep. 2021 - Jan. 2022**
Implemented several Machine Learning and Deep Learning algorithms, used Python.

Charging Lane   **Sep. 2021 - Jan. 2022**
Designed a prototype road which has inductors placed under it. Provides charge to electric cars.

SMWiredPy (Project Link)   **Jun. 2021 - Aug. 2021**
Developed the SMCom UART communication protocol, binded its codes from C++ to Python.

Simple Elevator (Project Link)   **Feb. 2021 - Jun. 2021**
Designed a basic elevator model with KL25-Z board and simple components.

Chameleon Robot (Project Link)   **Sep. 2020 - Dec. 2020**
Created a robot moving with servo legs and changing its color according to floor.

TRC-10 Transceiver   **Mar. 2020 - Jun. 2020**
Implemented a simple transceiver circuit with many components.

LANGUAGES

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

ACHIEVEMENTS AND CERTIFICATES

Bilkent University Comprehensive Scholarship   **Sep. 2018 - Jun. 2023**
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