

Muhammed Şamil Arınc

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Electrical and Electronics Engineer

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

Embedded Software Candidate Engineer - Akdogan Tech - Ankara, Turkey	Nov. 2022 - Current
Working on Meteksan Ulaq AUSV project, designing socket and serial communication protocols, generating custom Linux distributions. Using 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	Feb. 2023 - Current
Working on the Facial Recognition powered door lock, MQTT communication, database implementation. Using Raspberry Pi, Firebase, Python, TFLite.	
Spoken Number Recognition	Feb. 2023 - Current
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.	
DL 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 - 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