








Alp Argun

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EDUCATION

-  **M.SC. ELECTRICAL AND COMPUTER ENGINEERING** Apr 2019 - Present
RWTH Aachen University, Aachen, GERMANY
-  **B.SC. ELECTRICAL AND ELECTRONICS ENGINEERING** Sep 2014 - Jun 2018
Bilkent University, Ankara, TURKEY
GPA: 3.16/4.00
-  **HIGH SCHOOL AND INTERNATIONAL BACCALAUREATE DIPLOMA** Sep 2010 - Jun 2014
TED Ankara College Foundation Private High School Ankara, TURKEY
High School Diploma GPA: 89.16/100, International Baccalaureate Diploma GPA: 31/45

WORK EXPERIENCE

-  **ASELSAN, Software Engineer** Jan 2019 - Mar 2019, Ankara, TURKEY
C++ programming for embedded systems.
-  **SIEMENS, R&D Engineering Trainee** Aug 2018 - Sep 2018, Budapest, HUNGARY
Python programming on a Raspberry Pi to develop a user interface for a modal analysis device.
-  **ASELSAN, Software Engineering Intern** Jul 2017 - Aug 2017, Ankara, TURKEY
Implementing a Communication Protocol Converter that allows conversions between Serial, Socket, 1553, CAN, and Ethernet configurations for Embedded Real Time Systems
-  **BILKENT UNIVERSITY, Teaching Assistant** Sep 2016 - Dec 2016, Ankara, TURKEY
Grading PHYS101 General Physics I papers
-  **UMRAM, R&D Engineering Intern** May 2016 - Jul 2016, Ankara, TURKEY
MATLAB programming to move a robotic arm and take field measurements with a Gaussmeter

LANGUAGES

-  Turkish: Mother Tongue
-  English: Full Professional Proficiency
-  German: Limited Working Proficiency

EXAMS

- **TOEFL iBT:** 103/120 (Sep 2017)
- **GRE:** Verbal Reasoning: 150/170, Quantitative Reasoning: 167/170, Analytical Writing: 4/6 (Oct 2017)

TECHNICAL SKILLS

Programming

Python Java C++
VHDL Assembly SQL
HTML CSS PHP

Software

MATLAB Microsoft Visual Studio
XILINX Vivado SPICE
SOLIDWORKS LabView

PROJECTS

Python

- *Modal Analysis Device*: A Raspberry Pi application that asks for physical quantities of a transformer and models it, then, waits for sensor data from test points and plots it.
- *Mobile Controlled Exploration Car*: A Raspberry Pi communicates with sensors and actuators through GPIO pins, streams live video from a camera through Wi-Fi and communicates with an Android application through Bluetooth.
- *Bitcoin Price Estimator*: Bitcoin dataset is created, processed and learned with Naïve Bayes, Neural Networks and Logistic Regression algorithms to predict future price.

MATLAB

- *Move and Measure*: A robotic arm with an attached Gaussmeter is moved according to user input to measure the magnetic field and sends the data through serial communication.
- *Fruit Identifier*: Fruit images are processed and recognized using machine learning algorithms.

VHDL

- *Digit Recognition*: A speech signal is recorded by a microphone amplifier circuit and processed on a BASYS3 FPGA to recognize the spoken digit.
- *Parking Sensor*: A BASYS3 is programmed to measure distance with an ultrasonic sensor and the distance is shown on the seven-segment display.
- *Slot Machine*: A slot machine game implemented for BASYS3 in which the user can place a bet and play.

C++

- *Communications Protocol Converter*: A user interface is implemented to make conversions between Serial, Socket, 1553, CAN, and Ethernet protocols.

ACADEMIC HONORS AND AWARDS

Spring 2018: Bilkent University Honor Student, Ankara, Turkey

Spring 2015 - Fall 2017: Bilkent University Honor Student, Ankara, Turkey

Fall 2015 - Spring 2016: Merit Student Scholarship, Bilkent University, Ankara, Turkey

Fall 2014: Bilkent University High Honor Student, Ankara, Turkey

Sep 2010 - Jun 2014: Merit Full Scholarship, TED Ankara College Foundation Private High School, Ankara, Turkey

SOCIAL ACTIVITIES AND AWARDS

2014 - 2007: Won numerous medals in nationwide and citywide Handball tournaments as a TED Ankara College Sports Club handball player

Sep 2010: Turkish National Handball Team Training Camp, Niğde, Turkey