



Haritha Seddik

Software Developer | Engineer

akkad.haritha@gmail.com ✉

+905538033898 📞

linkedin.com/in/haritha-seddik in

github.com/HarithaSeddik 🐙

Ambitious engineering enthusiast who's also a little hooked on Caffeine

EDUCATION

BSc in Mechanical Engineering Bilkent University

08/2016 - 09/2020

Cumulative GPA: 3.56

Relevant Courses

- | | |
|----------------------------|-------------------------|
| - Intro to Matlab | - Intro to Java |
| - Linear Algebra | - Mechatronic Systems |
| - Probability & Statistics | - Intro JavaScript |
| - Control Systems | - Computational Methods |

WORK EXPERIENCE

Software Developer | R&D Engineer RailAcoustic - Enekom Energy

09/2020 - 2020

Ankara, Turkey

Broken Railway Detection Systems

Achievements/Tasks

- Developed front-backend for multiple **desktop applications** for testing microcontroller based devices for the **Ankara-Sivas YHT** high speed train project.
- Developed communication protocols using Python's **Socket**.
- Developed **SQL** database management classes using Python **Sqlite3**.
- Using **C**, built multiple **Arduino/ RaspberryPi** based testing apparatuses for product shelf testing.
- Built a remote testing platform on an **Ubuntu Server** on **RaspberryPi**
- Developed audio-analysis algorithms using **MATLAB's** Signal Processing, and Wavelet toolboxes.

Undergraduate Research Assistant Bilkent University/ MiNi Lab

01/2018 - 09/2019

Achievements/Tasks

- Modeled droplet formation using COMSOL Multiphysics software, used Matlab for statistical analysis.

R&D Intern Artiboyut Technologies

07/2019 - 09/2019

Ankara, Turkey

Achievements/Tasks

- Developed Arduino homing system using stepper motors

Quality Control Intern Oliga Ltd.

08/2018 - 09/2018

Ankara, Turkey

Achievements/Tasks

- Prepared QC spreadsheets according to ISO standards

SKILLS

Javascript

React JS

Python

SQL

Firebase

Git

TensorFlow

MySQL

MsSQL

Bootstrap

Java

Arduino

Linux

OpenCV

PyQT5

LaTeX

Material-UI

ACADEMIC/PERSONAL PROJECTS

Online Portfolio Website - ReactJS

- Built a fully functional, dynamic portfolio website using **ReactJS**
- Automatic emailing contact form using **FormSpark** and **AXIOS** for using REST API
- Interactive animations using pure **JavaScript** and **CSS**

Ecommerce React App Website

- Built an ecommerce store website using React by utilizing tools like **Material-UI**, **React-Hook-Form**, and **Stripe**.
- Handled backend operations using Commerce.js API calls.

Drone Hunter Platform (Object Tracking with Python OpenCV) - Meteksan SAVUNMA

- Project Lead for a team of engineers to develop a hunter-drone platform to neutralize malicious drones, sponsored by **Meteksan SAVUNMA** as part of the BSc graduation project.
- Developed **Object-recognition** and tracking code using Python's **OpenCV** fed by a video stream powered by a **Jetson NANO**. Used feedback from the video-stream to **control servo-motors** for stabilizing the camera's gimbal mechanism.

Modeling Mobility Interactions in Population Biodiversity - RESEARCH - MSN514

- Recreated Nature paper that models the effect of mobility on biodiversity based on rock-paper-scissor game model (mathematical Evolutionary Game Theory model).

Gap-Closing Mechatronic Robot (2nd Place)

- Programmed **PIC microcontroller** in **C**, PWM control of DC motors with feedback from UV sensors.

ACHIEVEMENTS & CERTIFICATES

Graduated with 2nd Rank in cohort

100% tuition & accommodation scholarship, Bilkent

High Honors BSc graduation certificate

LANGUAGES

English
Native or Bilingual Proficiency

Turkish
Full Professional Proficiency

Arabic
Full Professional Proficiency