MUSTAFA ERYILMAZ

SUMMARY

Software developer with 2 years in professional and 5+ years of self-development. Electrical and Electronics Engineer with a bachelor and master's degree.
Cloud-based or local, I create games with Unity and applications with Flutter. I improve myself by working in remote and freelance jobs such as mobile application development, python-based applications, UI design.

EXPERIENCE

Mobile App Developer, 01/2018 - Current
RaGi Studios
- I started working on **Flutter and Unity** on mobile app and game development. I opened my own account as "RaGi Studios" on Google Play, installing some of my applications and testing them.

Research Assistant, 11/2020 - 11/2022
Hacettepe University - Ankara, Çankaya
- For 2 years as a research assistant, I worked on the mechanics, hardware and software of automatic optical scanning device that works with **deep learning-based** algorithms. I set up a **computer vision** infrastructure that can detect and classify errors on the PCB and constantly updates its training with new visual data in the loop.

Embedded software and hardware engineer, 01/2020 - 09/2020
Kardinero Medical Systems Inc. - Ankara, Çankaya
- I worked on the hardware and embedded software of a remote access, computer aided and portable robotic exercise platform. I completed the hardware and coding of the electronic hardware I developed.

Part-time Electrical and Electronics Engineer, 12/2018 - 06/2019
MS SPECTRAL DEFENSE INDUSTRY INC. - Ankara, Çankaya
- I worked as a part-time embedded software engineer to improve myself and did embedded coding and system tests for various microcontrollers.

Electrical and Electronics Engineer Intern, 07/2018 - 08/2018
ASELSAN A.Ş. - Ankara, Yenimahalle
- I completed my summer internship at ASELSAN.

Intern Electrical and Electronics Engineer, 06/2016 - 09/2017
APAK ENERJİ A.Ş - Ankara, Çankaya
- Worked on SPP (Solar Power Plant) projects; studies on project drawing, calculations, software, material information were made.

CONTACT

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SKILLS

- Programming Languages:
  Dart, Python, Node.js, C#, C++, Java, CSS, HTML

- Frameworks:
  Flutter

- Database:
  Google Firebase, MySQL, SQL Server

- Operating Systems:
  Windows, MacOs, Linux, Ubuntu

- Mobile Development
  Android&IOS Development, API design, RESTful API

- Softwares:
  VsCode, Unity, Blender, Figma, Android Studio, Trello, STM32CubeMX, Thonny, Solidworks, AutoCAD, MATLAB, Altium

- Microcontrollers and boards:
  Raspberry Pi, STM32 ARM, FPGA, MSP430, Arduino

- Designing and Programming:
  Rotary Wing UAV(Drones), 3D Printer

EDUCATION

Master of Science, **Department of Electrical and Electronics Engineering**, 2023
Hacettepe University - Ankara
Thesis topic: Design of Automated Optical Inspection Device Classification of PCB Defects
Deep learning-based project that can autonomously detect and classify faults on PCB

Bachelor of Science, **Department of Electrical and Electronics Engineering**, 2020
Hacettepe University - Ankara
Graduation Project: Swarm Drones
I have set up a swarm drones that can autonomously perform a joint task with communication among themselves. There were 3 active drones in the system and the number could be increased if desired.

PROJECTS

- Visual Notes App

  It is an application created to manage your notes with pictures. It gives you a quick and simple note-taking experience with images.

  Designed by: Flutter, Dart, Google Admob, Figma, VsCode, Android Studio

  [Visual Notes App (Google Play)](#)

- HU UAV Society App

  It is an application created for HU UAV Society members to share projects, trainings, events and special news about the society.

  Designed by: Flutter, Dart, Node.js, Google Firebase, VsCode, Android Studio

  [HU UAV Society App (Google Play)](#)

- Math Puzzle App

  It is 2D math game where user answers some math riddles and their questions are updated and added via cloud. It will be published soon.

  Designed by: Unity, C#, Google Admob, Figma, VsCode

- Swarm Drones

  In the project, a swarm of drones was established that can autonomously perform a common task by communicating among themselves.

  Designed by: Python, C++, C#, VsCode, Raspberry Pi, STM32, Solidworks,

  [Swarm Drones (Youtube)](#)

- Automatic Optical Scanning Device based on Deep Learning

  Deep learning-based project that can autonomously detect and classify faults on PCB

  Designed by: Python, Qt, VsCode, STM32, Solidworks, Altium

PUBLISHMENTS

- Conference paper - Defect Classification from Electronic Card Images by Deep Learning (2020 28th Signal Processing and Communications Applications Conference (SIU))

PATENTS

- Printer Device with Automatic Printing Apparatus for Flexible Circuit Applications (Publish date: 27.01.2022 · WO2022/019867 · A1)

CERTIFICATIONS

- Driving License B
- UAS-1 License (UAV-1 License)
- CMAS Diving License

REWARDS

- ISIF'20 Istanbul International Invention Fair, Gold Medal

LANGUAGES

Turkish: First Language
English: C1