ARDA DİZDAROĞLU
Mechatronics & Computer Engineer & Software Developer

✉ ardadizdaroglu@hotmail.com

☎ 0534 485 72 82

📍 Kartaltepe Mah. İncirli Cad. Alpay İzer Sok. Yuvam Apt. No:11/8
Bakırköy / Istanbul / TURKEY

- linkedin.com/in/ardadizdaroglu
- github.com/ardadizdaroglu
- facebook.com/arda.dizdaroglu
- twitter.com/ardadizdaroglu
- instagram.com/arda_dizdaroglu

CAREER SUMMARY

I am a hard-working Mechatronics & Computer Engineer graduated from Bahçeşehir University with 2 major programmes and graduated with Computer Engineering Master Degree from Yıldız Technical University. I also managed to accrue nearly **5 years of experience**. I'm based in Turkey, but willing to relocate if required. Also I'm open to remote work.

WORK EXPERIENCE

Android Developer
DefineX Consulting & Technology & Labs

September 2021 - Present

We are working on a **mobile app** called **ParaPlus** to intelligently manage and control customers' spending. ParaPlus allows you to track your credit cards in different banks from a single point and to know your account. All expenditures, remaining limits, payment dates and campaigns on all credit cards of a user are displayed in the ParaPlus application. We develop it by using **Kotlin** with our Android team and that is connected to our microservices through **WSO2**.

Technologies used:

`Kotlin` `REST` `Retrofit` `Databinding` `Coroutines` `Jetpack Navigation` `Hilt` `MVVM`

Backend Developer
DefineX Consulting & Technology & Labs

January 2021 - September 2021

We were working in **international agile development project** pair with Tenera company. We assisted Tenera in enabling a feature-rich connected platform running on the cloud, built on APIs and Microservices by setting up an infrastructure and transforming core services.

Projects:
- We develop **backend** of a **File Manager and more** by using **Spring Boot** via **Java** and **Kotlin** with our team. We integrated our APIs in **WSO2 and AWS.**

Technologies used:

`Spring Boot` `Java` `Kotlin` `REST` `WSO2 API Manager` `Amazon AWS`

Mechatronics & Computer Engineer
Android - C# - Python Developer
DOF ROBOTICS

February 2019 - January 2021

I carried out projects on **software development** and **artificial intelligence** in the company. I was making softwares that enables synchronized **6-axis simulators** working with **VR (virtual reality) glasses.**

Projects:
- I developed DOF ROBOTICS content app (**live on Google Play**), DOF GAMES content mobile app and TAXICARE Bluetooth UV Disinfector mobile app with **Java,** DOF ROBOTICS Meeting mobile app with **Kotlin** via native style.
- I developed motion control softwares that connects **Siemens PLC** and **VR games** using **C# .NET** and the **OPC (OLE for Process Control)** library.
- I developed softwares that provides fast data flow with the **Google Firebase** database using **Python** and **C# .NET.**
- I developed software that includes **Image Processing** and **Machine Learning** using **OpenCV, Tensorflow, YOLOv3** libraries in **Python** (10000 photos in 0.6 seconds).
- I developed Disinfection Cabinet, Remote UV LED Carrier projects in health sector

Technologies used:

`Python` `C# .NET` `Android (Java)` `Artificial Intelligence (AI)` `Machine Learning (ML)` `Tensorflow` `Image Processing` `OpenCV` `PLC` `Virtual Reality (VR)` `Unreal Engine` `Unity` `C++` `C` `SQL` `Raspberry Pi` `Arduino`

SKILLS & TOOLS

Technical / Professional Skills
- Python
- C# / C#.NET
- Java / Native Android
- Kotlin / Native Android
- Flutter / Cross Platform Mobile Developing
- REST
- Arduino / Raspberry Pi
- C
- C++
- SQL
- MATLAB
- AutoCAD / CATIA
- mikroC / CCS

APIs / Libraries
- Tensorflow / Keras
- OpenCV
- PyQT5
- Google Firebase
- Pandas / Numpy
- Spring Boot
- AWS

Tools
- Android Studio
- Visual Studio
- PyCharm
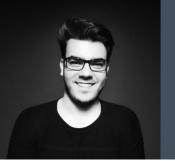- Unreal Engine
- Unity
- IntelliJ IDEA
- Github

Others
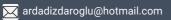`OOP (Object Oriented Programming)` `.NET Form` `ML (Machine Learning)` `IoT (Internet of Things)` `AI (Artificial Intelligence)` `Image Processing`

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WORK EXPERIENCE (continue...)

Mechatronics Engineer (Intern)
Istanbul Technical University (ITU)
Embedded System Design Laboratory

June 2018 - July 2018

I was selected for the Embedded Systems Design Laboratory Internship organized by Istanbul Technical University every year and I did an internship together with 20 students.

Projects:
- I learnt FPGA board structure and Verilog digital system design.
- I learnt MicroBlaze based digital system design and its C code execution.

Technologies used:

`FPGA` `Verilog` `MicroBlaze` `MATLAB` `C`

Mechatronics Engineer (Intern)
Compact International
Field And Rental Services Inc.

June 2017 - July 2017

Projects:
- 3D drawing and design
- Electronic circuit design
- Software development

Technologies used:

`Arduino` `Raspberry Pi` `PIC Programming` `Proteus` `Unity` `CATIA` `AutoCAD`

VOLUNTARY EXPERIENCE

Chairman of Robotics and Automation Society
Bahçeşehir University (BAU)
IEEE Student Branch

May 2016 - May 2018

Reaching the people who are interested in issues such as robotics, electrical, electronics, software, mechatronics and automation, and carrying out useful activities within the framework of team spirit, in unity and togetherness, under the club in the name of individual and university.

Reverse Mentor
Doğuş Otomotiv

February 2018 - January 2020

Providing guidance to Koray Bebekoglu, CDO of Doğuş Otomotiv, in the Corporate Communications and Digital Transformation in automotive industry.

Student Mentor
Bahçeşehir University (BAU)
Mentoring and Activity Program (BAUMAP)

September 2018 - June 2019

Performing activities both in terms of personal development, socially and culturally, and enable our university students' careers to be full and beautiful.

Board Member & Mechatronics Leader
Bahçeşehir University (BAU)
Career and Development Student Club

May 2018 - June 2019

Performing activities both in terms of personal development, socially and culturally, and enable our university students' careers to be full and beautiful.

PERSONAL PROJECTS

- "EduBucket" **(live on Google Play)** and "I'm Hungry" mobile apps written in **Java.**
- "EatAll" and "LetsWallet" mobile apps written in **Flutter,** "OMDB Film Finder" mobile app written in **Java**
- "Marble Run" Game created in Unreal Engine
- Python & Google Firebase based Face Recognition Software
- IoT Home Security System Capstone Project with Arduino
- TicTacBot KUKA Robot (Industrial Robot Arm Playing Autonomously Tic-Tac-Toe Game Against People)
- Ardaino & Barney (World's 9th best Mini Sumo Robot in Robochallenge Romania 2017)
- Gas3D (My own handmade 3D Printer project)
- Line Follower Robot
- IoT Lamp Project with Arduino
- Elevator Project with PIC

EDUCATION

MSc in Computer Engineering **(3.80/4)**
Yıldız Technical University (YTU)
2019 - 2020

BSc in Computer Engineering **(2.88/4)**
(Double Major)
Bahçeşehir University (BAU)
2016 - 2019

BSc in Mechatronics Engineering (2.99/4)
Bahçeşehir University (BAU)
2015 - 2019

LANGUAGE

Turkish (Native)

English (Advanced)

German (Pre-Intermediate)

French (Beginner)

INTERESTS

3D Printers

3D Modeling

Cryptocurrency & Blockchain

Playing Basketball

Playing bass guitar

REFERENCES

Mustafa Üstertuna
Senior Manager in Mercedes-Benz Türk
www.linkedin.com/in/ustertuna/

Koray Bebekoğlu
CDO in Doğuş Otomotiv
www.linkedin.com/in/koray-bebekoglu-43821123/

Asst. Prof. Dr. Emel Demircan
Stanford University Robotics Teacher & Representative
emeld@cs.stanford.edu

Asst. Prof. Dr. Mehmet Berke Gür
Head Of Mechatronics Eng. in Bahçeşehir University
berke.gur@eng.bau.edu.tr