

BURAK ÖZPOYRAZ

Ph.D. - Koç University / Electrical and Electronics Department

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SELF INFORMATION

As an enthusiast of the revolution in information, communication and software technologies, I am looking for a stimulating project opportunity which will enhance my productivity and will inspire me. My interest areas span technologies such as wireless communications, especially physical layer applications as well as 4G / 5G and beyond networks, future Wi-Fi technologies, programming and software technologies, artificial intelligence and deep learning, space technologies and satellite communications, but not limited to these. I would like to have a creative role in promising projects that provide me in-depth knowledge of various ingenious technologies.

EXPERIENCE

Android Software Developer & Electronic Engineering Student

Mikrop Robotics

06/2017 - 01/2018

- Designing swarm robots called Mikro-P. Mikro-P is a robotic learning and entertainment platform that has an open code library
- Developing an android app for a PLC project to control motors
- Circuit designing of swarm robots
- Programming of swarm robots

Android Software Developer

ari24

07/2016 - 05/2017

- News portal of Istanbul Technical University
- Developing an app for ari24 which aims to reflect ari24

Android Software Developer & Electronic Engineering Student

ACROME

02/2018 - 06/2018

- Robotics-mechatronics system design and control solutions for teaching and research purposes.
- Designing a ball-balancing table
- Arduino & Android software of ball balancing table

Telecommunication Intern

P.I. Works

06/2018 - 08/2018

- Optimizing the services of mobile operators

Research Assistant

Koç University / CoreLab

09/2018 - Present

MY LIFE PHILOSOPHY

"if alive ? keep learning : just rest"

STRENGTHS

Hard-working

Always Planning

Documenting

Creating Algorithm

C# / Visual Studio

C Programming

SQL Database

Java & Android / Android Studio

Python

Matlab

Actix

MapInfo Professional

Arduino

LabVIEW

USRP

LT Spice

Latex

Deep Learning Algorithms

Julia Programming

VOLUNTARY WORK

OTOKON

ITU

09/2016 - 09/2017

- Leading participant of the autonomous-drone project

OTOKON

ITU

09/2016 - 09/2018

- Organization committee member of Istanbul Technical University Robotic Olympics

OTOKON Robotics

ITU

09/2017 - 06/2018

- Leader of the robotic team OTOKON Robotics

- Communications and Research Laboratory of Koc University
- Wireless Communications
- Large-scale MIMO
- 5G and Beyond Technologies
- IEEE 802.11be (Wi-Fi 7)
- Index Modulation
- Physical Layer Security
- Deep Learning

PROJECTS

Advanced Encryption Standard

- Implementation of AES in Python
- Analysing bit error rate - frame error rate relationship
- Introducing novel string encryption algorithm

Android & Bluetooth Project

- Creating an Android application that scans the environment to detect connectable devices.
- Connecting to a device, not just a phone but also a BT sensor such as HC-06
- PLC control interface

EDUCATION

Ph.D. in Electrical & Electronics Engineering

Koç University

📅 Jan 2020 – Present

Advisor: Assoc. Prof. Ertuğrul Başar

Courses:

- Wireless Communications / Assoc. Prof. Ertuğrul Başar
- Deep Learning / Prof. Deniz Yüret
- Random Process / Assoc. Prof. Ertuğrul Başar
- Information Theory / Prof. Özgür Barış Akan

B.Sc. in Electronics and Communication Engineering

Istanbul Technical University

📅 Sept 2014 – Jan 2020

GPA: 3.77

MEMS Research Group

ITU

📅 09/2017 – 09/2018

- Electronic circuit designer of Prediagnosing Cancer Mechanism Project / Awarded with 2nd place in Teknofest Istanbul 2018

APIS RND SATELLITE TEAM

ITU

📅 01/2019 – 10/2019

- Electronic team leader / 4th place in Teknofest Istanbul 2019

LANGUAGES

Turkish



English



INTERESTS

- Chess
- Creating Algorithms
- Football
- NBA
- Space Technologies