

Oğuzhan Başer

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EDUCATION

Bogazici University

Istanbul, Turkey

Major in Electrical and Electronics Engineering (B.S.)

September 2017 – June 2022

GPA: 3.66/4.0

Selectivity: The university is frequently ranked as the top university in Turkey with an admission rate of 0.09%

Meram Science High School

Konya, Turkey

Diploma in Turkish

September 2013 – June 2017

GPA: 97.57/100

Selectivity: The high school is frequently ranked as one of the top high schools in Turkey with an admission rate of 0.33%

HONORS & AWARDS

Ranked **40th** among 2.2 million students taking the Turkish university entrance exams.

Certificate of Merit due to overachievement for 4 years high school period.

PUBLICATIONS

Ararat, K., Altan, O., Serbest, S., Baser, O., and Dumanli, S. "A Biodegradable Implant Antenna Detecting Post-Surgical Infection.", *IEEE EuCAP (14th European Conference on Antennas and Propagation)*, May 2020

RESEARCH EXPERIENCE

FRagRant: Frequency and Radiation Pattern Reconfigurable Antennas

Istanbul, Turkey

Bogazici University Antenna Research and Propagation Laboratory

February - September 2019

Supervisor: Dr. Sema Dumanli

Partner: Z. Pelin Yildirim

AkIm/SImpliFy-B: Smart Orthopaedic Hip Implant Fighting Antimicrobial Resistant Bacteria

Istanbul, Turkey

Bogazici University Antenna Research and Propagation Laboratory

June 2019- Present

Supervisor: Dr. Sema Dumanli

PROJECTS

Designing Permittivity Detector, Boğaziçi University Antenna Research and Propagation Laboratory

Istanbul, Turkey

Supervisor: Dr. Sema Dumanli, Erdem Cil

Partners: Onur Tatar, Sanberk Serbest

April - June 2019

Coded a MATLAB program in order to get permittivity values of biological phantoms by iterating an algorithm using environment variables such as air permittivity, water permittivity, and temperature.

Made an appropriate probe to measure physical quantities such as permittivity of a liquid by means of VNA and coaxial cables.

Air Drum, Rythim for Everywhere, Bogazici University Private Group

Istanbul, Turkey

Supervisor: Dr. Sema Dumanli

January 2019 - Present

It is aimed to prototype Rythim Generator by means of Haptic Sensors affected by underfoot impulses. Signals generated at foot attached device wirelessly communicates with both AI reinforced phone software and bluetooth earphone. Focused on solving delay and non-accurate haptic signal problems for different foot movements.

WORK EXPERIENCE

SESTEK - AI Powered Conversational Solutions Company

Istanbul, Turkey

Role: Machine Learning / R&D Engineer (Internship)

July - September 2020

Applying Common Low-Level Methods for Audio Signal Processing, Implementing Popular High-Level Methods for Speech Recognition Tasks,

Model Design and Optimization for Supervised Learning Based Algorithms such as WaveNet, SqueezeNet, AlexNet

Applying Recent ML Research Findings into Industrial Practices, Multi-System Optimized Embedded Algorithm Design.

VOLUNTEER EXPERIENCE & LEADERSHIP ACTIVITIES

Electrical and Electronics Student Representative Board, Bogazici University | Volunteer Ambassador

Present

MECZUP (The Lunatic), Film, Team Tiryaki | Director, Scriptwriter

February - May 2018

Mithat Alam Film Center, Bogazici University | Executive Member |

Present

Work and Travel Experience, Cottonwood Cove/ LasVegas - Nevada - USA | J1 Fuel Personnel

June - August 2018

Rock Band, Karaçam Rock (Band Name) | Lead Guitarist

February - December 2014

Scouting and Guiding Federation of Turkey | Scout

April 2014 - May 2015

SKILLS, ACTIVITIES & INTERESTS

Skills: Proficient in C, C++, Java, Matlab, Python, Artificial Deep Neural Networks, Tensorflow, Keras Machine Learning, OrCAD/PSpice, VHDL Adobe Photoshop, Adobe Lightroom, LaTeX, Adobe Premiere Pro, Adobe Illustrator, Arduino

Languages:

Native in Turkish,
Fluent in English,
Elementary in German

Interests:

AI, Network Science, Chaos Theory
Network Security, Cloud Computing,
Digital Signal Processing, Cryptography,
Film Making, Photography, Cognitive Science, Philosophy

Other Extracurriculars:

Fitness, Climbing, WWF, Inzva AI Community
Hiking, Riding Motorcycle, Playing Guitar and Piano
Art and Technology writer of "cizgisizdefter.org"