

OZGE ADA BOZBAS

MSc Student in Biomedical Engineering

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ABOUT ME

I am dedicated to continuous learning and improvement, with a strong foundation in both academics and practical experience. My analytical thinking and communication skills help me work well in teams. I discovered my passion for electronics through undergraduate projects, focusing on electronic circuit design and R&D.

EDUCATION

Politecnico di Milano | 2025-Present

Master of Science Biomedical Engineering

Track: Biomedical Engineering (Technologies for Electronics)

Izmir University of Economics | 2022-2025

Master of Science Electrical and Electronics Engineering

Thesis: Detection of Human Emotions Under Multiple Olfactory Stimuli Using EEG Signals and Machine Learning

Full Scholarship

Final CGPA: 3.50

Izmir University of Economics | 2017-2022

Bachelor of Science Biomedical Engineering

Full Scholarship

Final CGPA: 3.08

WORK EXPERIENCE

BISAN Motorcycle and Bicycle Industry | 2024 - 2025

R&D Supervisor

- R&D Project Management
- Power Electronics and Electronic System Design
- 3D Solid Modeling and printing with 3D printers
- Prototyping experience within the scope of projects

Ravensis Industrial Automation Systems | 2023 - 2024

R&D Engineer

- R&D Project Management
- Electronic Circuit and PCB Design
- 3D Solid Modeling and printing with 3D printers
- Prototyping experience within the scope of projects

Izmir University of Economics | 2022 - 2023

Graduate Student Assistant

- Assisting the laboratory hours of the:
"Numerical Design" and "Industrial Embedded Systems" lectures.

Izmir Biomedicine and Genome Center | 2021 - 2023

TUBITAK 2247-C Intern Researcher, Scholarship Holder

- TÜBİTAK 2209-B Project Coordinator and gaining R&D experience
- Electronic Circuit Design and PCB printing with CNC
- 3D Solid modeling and printing with 3D printers
- Programming experience with Arduino

PUBLICATIONS

Master Thesis

Detection of Human Emotions Under Multiple Olfactory Stimuli Using EEG Signals and Machine Learning

Manisa Celal Bayar University 6th National University-Industry Collaboration R&D and Innovation Congress | Manisa, Turkey

Bozbaş OA, Yilmaz T

Design and Manufacturing of a Rotary Table Prototype Integrated with a Laser Marking Machine

2023 31st European Signal Processing Conference | Helsinki, Finland

B. Akbugday, O. Ada Bozbas, O. Karabiber Cura, S. Pehlivan and A. Akan,

Detection of Attention Deficit Hyperactivity Disorder by Using EEG Feature Maps and Deep Learning

Master Thesis

Journal of Intelligent Systems with Applications | Izmir, Turkey

Bozbaş OA, Avcı MB, Hamurcu R, Gürman E, Çetin AE, Sayılğan E.

Design of Steady-State Visually-Evoked Potential Based Brain-Computer Interface system.

PROJECTS

TUBITAK 1507 SME R&D Start-Up Support Program (Project Coordinator)

- GREEN BIKE: Development of a Pedal-Powered Bicycle Unit that Generates, Stores, and Monitors Renewable Electric Energy via Mobile Application.

TUBITAK 1507 SME R&D Start-Up Support Program (R&D Researcher)

- Ravenvision: Development of Innovative Imaging and Lighting Systems

TUBITAK 1507 SME R&D Start-Up Support Program (R&D Researcher)

- Development and Prototype Manufacturing of a Locally Produced Smart Valve

2023 Conference of European Association for Signal Processing (Graduate Researcher)

- Detection of Attention Deficit Hyperactivity Disorder by Using EEG Feature Maps and Deep Learning

TUBITAK 1005 National New Ideas and Products Research Support Program (2247-C Researcher)

- Incubator Integrated Electrochemical Analysis Platform for Cell-Based Analysis

TUBITAK 2209-B University Students Industry Oriented Research Projects Support Program (Undergraduate Researcher)

- Syringe Pump Project with Air Bubble Control System Providing Continuous Flow

TUBITAK 2209-B University Students Industry Oriented Research Projects Support Program (Undergraduate Researcher)

- Design of Steady-State Visually-Evoked Potential Based Brain Computer Interface System

SKILLS

- Autodesk EAGLE
- Solidworks
- 3D Printers
- Proteus
- Arduino IDE
- CNC Machines
- Fusion
- Python
- Matlab

REFERENCES

References are available upon request.