

# MUHAMMED SEZER

## Robotics & AI Enthusiast and Engineer

@ muhammedsezer12@gmail.com  
in muhammed-sezer-160428208

+90-530-613-61-84  
sezer-muhammed

METU, Ankara, Turkey  
IMSezer

SezerSevval



## IN THIS CV, COLOR MATTERS!

WEB DEVEL-  
OPMENT

ROBOTICS

ARTIFICIAL IN-  
TELLIGENCE

ENTREPRENEURSHIP

ACADEMIC

## EXPERIENCE

Account Manager

**ODTÜ TEKNOKENT**

September 2023 – Present      Ankara, Türkiye

- Management and Oversight of Entrepreneurial Companies
- Development of a Django Backend Supported Website with Chat-GPT Integration
- Implementation of AI for Classification and Visualization of Various Company Statistics
- Achieved an Eightfold Increase in Efficiency

Co-Founder & Robotics Engineer

**Orion Robotics, Robotics Start-up**

September 2021 – Present      Ankara / Turkey

- End-to-End Robotic Development
- ROS2 Package Design & Driver Implementation
- Hardware and Software Testing
- Simulation & Development
- AI Applications
- Entrepreneurship and Sales Experience
- Team Management
- Problem Solving

Swarm Robotics Researcher

**Middle East Technical University Robotics Center**

September 2021 - Present      Ankara / Turkey

- Academic Research
- Embedded Mapping
- Sensor Technology
- Data Processing
- Documentation
- Project Management

Research Intern

**TED University**

2022, Summer      Ankara / Turkey

- Rehabilitation Robotics Research

## ACHIEVEMENTS



#1 in Entrepreneurship competition  
Atılım University



#1 and #2 Artificial Intelligence  
competition around Turkey  
Teknofest 2022



#2 Young Entrepreneurs Idea  
Marathon  
UNICEF 2023



Mansion in University Students Re-  
search competition  
Tubitak 2242

## STRENGTHS

C++

ROS2

Gazebo

IsaacSim

ArduPilot

PX4

Digital Signal Processing

Dynamic Control Systems

Embedded Systems

Ground & Aerial Robotics

Python

NumPy

scikit-learn

PyTorch

Real-time Image Processing

Transformers

HTML

Django

CSS

JavaScript

MySQL

C#

.NET

Problem Solving

Risk Management

Crisis Management

Stress Management

Avoiding Complication

Decision Making

Teaching

MS Office Tools

Latex

## LANGUAGES

Turkish



English



Russian



- Hardware and Software Development
- User Testing
- Academic Publication

## Part-Time Engineer

### TUBITAK

📅 September 2021 - September 2022📍 Gebze / Turkey

- Image Processing Algorithms
- Text Extraction and Data Utilization
- Object Detection and Tracking Algorithms
- Data Evaluation and Processing

## PROJECTS

### Teknofest Artificial Intelligence Competition

#### Self-organized Team

📅 2021 - 2023📍 Istanbul / Turkey

- Team Leadership
- Achievement in AI Competition
- Data Preparation
- Algorithm Development
- Implementation of AI Tools
- Django Tool Development
- Django Data Visualization
- Public Contribution and Mentorship

### Mobile Robotic Vehicle Development

#### Self-managed Project

📅 September 2019 - September 2022📍 Ankara / Turkey

- End-to-End Robotic Development
- CAD Design & 3D Modeling
- Production Skills
- Performance Optimization
- Custom Circuit Board Design
- Control System Implementation
- ROS2 Development
- Autonomous Navigation
- Remote Control & Monitoring
- Comprehensive Documentation

## PUBLICATIONS

### 📄 Journal Articles

- E. Muslu, M. Sezer, A. Okasha, A. E. Turgut, and K. B. Arıkan, "Effect of adaptive assisted exoskeleton control system on motor learning skills," *Fırat Üniversitesi Uzay ve Savunma Teknolojileri Dergisi*, 2022.
- Ş. Dikkaya and M. Sezer, "Remote sensing in traffic dataset," *GitHub repository*, 2021.

## EDUCATION

B.Sc. in Electrical & Electronics Engineering

Middle East Technical University

📅 2017-2023

## REFEREES

### Prof. Klaus Werner Schmidt

@ Electrical Electronics Engineering

✉ schmidt [at] metu.edu.tr

Middle East Technical University

### Prof. İlkay Ulusoy

@ Head of Electrical Electronics Engineering

✉ ilkay [at] metu.edu.tr

Middle East Technical University

### Ali Rıza Küçük

@ Intel - Former Regional Consumer Sales Director

✉ www.kendikocunol.com