



MEHMET ENES AVCU

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📍 Ertuğrul Gazi mahallesi Asilsoy Sitesi 2/9 Sincan Ankara

✈ Skills

C++

Python

Matlab

Matlab-Simulink

C

ROS-ROS2

AutoCAD

Microsoft

Solidworks

CATIA

♥ Interests

Robotic

Control Theory

Convex Optimization

Dynamic Programming

🗣 Languages

Turkish

English

👤 Personal Details

Github : <https://github.com/avcuenes>

🎯 Objective

Designed control system at unmanned aerial vehicles and robotic system applications. Utilized through knowledge of dynamic of robotic and design control algorithm. Demonstrated strong skills in object-oriented programming and the use of abstract data types. Experienced programming embedded systems and designing 3D printing object, modifying existing software. Worked on many c-based embedded systems and has experience in linux-based systems. Preparing papers for national and international conferences on swarm unmanned aerial vehicles.

📁 Experience

- **Titra Technology** Jul-2021 - Present
 - Robotics Engineer
 - Path Planning for Multi-Agent
 - Swarm Intelligence
 - Collision Avoidance for Fixed Wing Swarm UAV
 - Deep Reinforcement Learning based Trajectory Tracker Design
 - Deep Reinforcement Learning based Auto-tune
 - Model-based Position controller Design
 - Using and developing algorithms at PX4, Mavlink, ROS/ROS2, MAVSDK and PlotJuggler.
 - Working with C++, Python, Matlab and Simulink across Linux, Windows and NuttX
 - Test algorithms in software and hardware
- **İTÜ Aerospace and Research Center** Aug-2020 - Aug-2021
 - Candidate Engineer
 - Trajectory Generation Based on B-spline and Polynomial
 - Formation Flying Based on Graph Theory
 - Trajectory Generation Using Convex Optimization
 - Collision Avoidance Using Artificial Potential Field
 - Collision Avoidance Using Sequential Convex Optimization
- **ISTAERO** Aug-2020 - Sep-2020
 - Intern



ASELSAN

Intern

Jul-2019 -

Aug-2019



Education



Gazi University

2016-2021

3.08



Projects



SRUS:Swarm of Agile Drones



Model Predictive Controller Design for Quadcopter



Research and Rescue with Multi-Agent UAV



Meta-heuristic optimization algorithms for design



Publications



**Weight Optimization of The Gearbox Using Interior Point
Method**

Preprint