

# Hasan Hüseyin KARATAŞ

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## About Me

- I am a senior year (4th grade) in **Electrical and Electronics Engineering** at Middle East Technical University.
- Fascinated by artificial intelligence, computer vision, and robotics.
- Passionate to participate and do research in related fields.

## Education

- **Middle East Technical University** (2019-2024 (June))
  - Department of Electrical and Electronics Engineering (CGPA:2.98/4)
- **Manisa Turgutlu Halil Kale Science High School** (2015-2019)
  - Graduation Degree: 96.4
  - University Entrance Exam Ranking: 1717

## Experience

- **AI Software Development Engineer (Part-Time), BAYKAR** (April 2023 - Present)

I am currently working as an AI Software development engineer at BAYKAR remotely, working on computer vision and deep learning for environmental awareness at the Advanced Autonomous Systems team.

- **Electronic-Software Sub-team Lead, METU ANATEK** (November 2021 – Present)

From November 2021, I am responsible for the planning of the electronic and software tasks, control of the operation, and communication within the team. Also, on projects, I individually gained experience in Software Architecture, Machine Learning, Deep Learning, Computer Vision, and Autonomous Control. Also in the electronics part, I gained experience in UAV avionics, internal communication protocols, and power distributions.

- **AI Software Development Internship, BAYKAR** (August 2022 – September 2022)

I did a project development internship on computer vision and deep learning project for 30 days in the Artificial Intelligence Software Development Unit in BAYKAR.

## Achievements

- **2021 Teknofest Fighter UAV Competition (METU ANATEK)**

Fighter UAV Fixed Wing 2.PLACE

Fighter UAV Fixed Wing The Most Original Software Prestige Award

- We became one of the first teams to successfully fulfill the task in Teknofest history by developing a UAV-GCS system with the “Autonomous Dogfight” capability, which is the main duty of the competition. The software we developed was awarded the “Most Original Software” award by the referee committee.

## ○ 2022 AUVSI-SUAS (METU ANATEK)

Technical Desing Paper 2. PLACE (2/71)

Fixed Wing Placement 3. PLACE (3/71)

Overall Ranking 10. PLACE (10/71)

- We represented our country and school among 71 international teams in Maryland, USA, in the AUVSI-SUAS 2022 competition, one of the most prestigious International UAV competitions with companies such as Google, Lockheed Martin, and Matlab among its sponsors. We developed a UAV-GCS system, which is capable of autonomous mapping, autonomous payload release, autonomous route tracking, and autonomous object detection-positioning.

## ○ 2023 Teknofest Mixed Swarm Robots (METU ANATEK)

Finalist

- We developed swarm algorithms to perform various tasks as a mixed swarm consists of an unknown number of UGVs and UAVs. I worked on route planning and collision avoidance sub-systems.

## Volunteering

### ○ District Basketball Team (2018-2019)

I was a team member of the basketball team, Kütahya/Emet Basketball Team.

## Skills & Language

○ **Technical Skills:** Python, C++, MATLAB, Microsoft Office, Gazebo, ROS, Ltspice, Siemens NX

○ **Language:** Turkish (Native), English (Professional), Greek (Beginner)

## Certifications

○ Class B driving License

○ UAV-0 and UAV-1 pilot License

## References

○ Uğur Karaman - TUSAŞ

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## Interests

○ Chess, Basketball, Swimming, Calisthenics, Movies