



## Can KARAGEDİK

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### SUMMARY

Greetings, my childhood dream at the start was to be a scientist. This dream got refined first into technology and then further into field of robotics. I have been working on my own robotics projects for last 5 years. While studying mathematics, I took formal and informal courses from other departments(especially computer engineering). I studied on algorithm development and image processing/computer vision where I could use my mathematics background. I have also researched and studied mostly practical on electronics, hardware and design, which are essential in robotics development. However, the strength I have is not what I know, but the fact that I know how to learn and research.

### SKILLS

<b>QUANTITATIVE RESEARCH</b>	Mathematical Optimization   Mathematical Modeling   Numerical Analysis
<b>PROGRAMMING LANGUAGES</b>	<b>Experienced:</b> Python <b>Familiar:</b> C/C++   C#   HTML/CSS/Javascript
<b>FRAMEWORKS &amp; LIBRARIES</b>	OpenCV   Matplotlib   Numpy   Scikit-learn   Dronekit
<b>TOOLS</b>	Fusion360   Git   Mission Planners
<b>EXTRA</b>	Soldering   Knowledge about many sensors and actuators   Worked with microcontrollers Reading and understanding technical drawings/schematics/manuals Producing technical reports
<b>LANGUAGES</b>	<b>Native:</b> Turkish <b>Working Proficiency:</b> English

### UNSUPERVISED PROJECT

#### Autonomous Quadcopter

Worked and studied on automatization of a quadcopter designed by me. Main studies were:

- Visual Simultaneous Localization and Mapping(VSLAM) (both stereo and monocular)
- Object Detection and Tracking
- Depth Estimation and Obstacle Avoidance with Stereo Cameras
- Autonomous Missions and Precise Landing

### EVENTS-CONTESTS

<b>TEKNOFEST INTERNATIONAL UAV COMPETITION</b>	2022
ROTARY WING CATEGORY	
<b>18TH INTERNATIONAL METU ROBOTICS DAYS</b>	2022
AUTONOMOUS UNMANNED AERIAL VEHICLE CATEGORY: COMPUTER VISION	
<b>GGJ ATOM GLOBAL GAME JAM</b>	2018
TECHNICAL CREW	
<b>IEEE METU HACKATHON</b>	2018
TECHNICAL CREW	

### EDUCATION

<b>MIDDLE EAST TECHNICAL UNIVERSITY</b>	2018-? (2022 July expected)
BACHELOR DEGREE OF MATHEMATICS	
<b>MANISA FATİH ANATOLIAN HIGH SCHOOL</b>	2013 - 2017

### INTERESTS

Defense industry | FPV Quadcopters | General Science | Traditional Archery | Philosophy