



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

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

UNSUPERVISED RESEARCH

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

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

EDUCATION

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

INTERESTS

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