Can Karagedik

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Webpage

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 anything. What I know best is to learn.

Skills

Tools and Languages	Python, C++, C, Fusion360, Betaflight, Inav, Mission Planner
Quantitative Research	Mathematical Optimization, Mathematical Modeling, Numerical Analysis
Familiar Development Boards	RaspberryPi, Navio, Arduino, ESP32 and many Flight Controllers

Unsupervised Research

Autonomous Quadcopter
Worked and studied on automatization of a quadcopter. The 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

Education

Bachelor Degree of Mathematics, *Middle East Technical University*	2018-? (2022 July expected)
Manisa Fatih Anadolu Lisesi	2013 - 2017

Interests

- Defense industry

- FPV Quadcopters

- General Science

- Traditional Archery

- Philosophy

References

References available on request