



Ali Azak

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Ankara
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EDUCATION

ALES - Quantitative : 97.20/100.00

ranked 159 out of 104.964 applicants

YDS : 90.00/100.00

A level proficiency

IELTS Academic: Overall 7.5 – Reading 8.5 - Listening 8.5 - Speaking 6.5 - Writing 6.5

Bachelor of Electrical and Electronical Engineering

09/19 - 08/23

TOBB University of Economics and Technology

Ankara

GPA : 3.66/4.00

Elective courses: Machine Learning, Computer Architecture, Computer Networks, System Programming, Network Science, Computer Vision, Pottery

Bachelor's Thesis: Designed a control system using Raspberry Pi Zero and OpenCV, and stabilized ball and plate system.

Master of Science in Computer Engineering

09/23 - Present

Bilkent University

Ankara

Elective courses: Deep Learning, Computer Vision, Algorithms I

Advisor: Hamdi Dibeklioglu

dibeklioglu@cs.bilkent.edu.tr

WORK EXPERIENCE

CVML Intern

05/23 - 08/23

Kuartis

Ankara

- Created ROS2 tutorials for upcoming interns.
- Conducted literature research on LIDAR and RADAR point cloud data processing techniques, evaluating metrics and overall performance for comparison. Implemented these techniques and presented findings.
- Implemented the paper "Exploiting Temporal Context for Tiny Object Detection" using PyTorch.
- Conducted literature research on road segmentation in satellite images.
- Delivered a presentation on Liquid Neural Networks and Neural Circuit Policies.

Undergrad Research Intern

04/22 - 01/23

TOBB ETU Kasirga Research Group

Ankara

- Designed a UART peripheral module for Teknofest 2022 processor.
- Read papers on computer architecture and gained experience on both evaluating and presenting them.
- Worked on in-house cycle level accurate Risc-V processor simulation using modern C++.
- Worked on parallel programming paradigms and API's OpenMP, CUDA etc.
- Worked as teaching assistant on Digital Design and Computer Architecture courses.

Engineering Intern

09/21 - 01/22

HAVELSAN

Ankara

- Worked on a VTOL UAV's inner dynamics, test procedures and project development parts. Participated in field tests and assembling processes.
- Developed an object detection system with a stereo depth camera and collected the depth information of the scene .
- Implemented and worked on convolutional neural networks, created my own custom dataset and used transfer learning on a pre-trained network with my dataset.
- Worked on robot operating frameworks, Linux operating systems, and developed a basic understanding on development processes.

SKILLS

Programming Python, C, C++, CUDA, OpenMP, Git, Docker, Tcl, Shell

Hardware Design Verilog, OpenLane

Machine Learning Scikit, Pytorch, Tensorflow, OpenCV

Communication Turkish (native), English (business), German (beginner)

EXTRA CURRICULAR ACTIVITIES

ETU EGT Vice President

@etuegt

09/22 - 08/23

Ankara

- Organized weekly movie showings.
- Coordinated live concert screenings every semester, featuring iconic bands such as The Beatles and Pink Floyd.