OMER MERSIN

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EDUCATION

DUZCE UNIVERSITY   Duzce, Turkey
Bachelor of Engineering   Oct 2020 - May 2025

Major in Computer Engineering
Cumulative GPA: 3.24/4.0
Relevant Coursework: Algorithms and Programming, Data Structures, Operating Systems, Computer Networks, Object-Oriented Analysis and Design, Computer Vision, Deep Learning, Artificial Intelligence, Natural Language Processing, Data Science, Embedded System Applications, Visual Programming, Computer Graphics

UNIVERSITY OF SEVILLA   Sevilla, Spain
Study Abroad Program in Computer Engineering   Jan 2024 - Jul 2024

WORK EXPERIENCE

DRONETOOLS   Sevilla, Spain
Software Engineer   Aug 2024 – Present

- Engineered high-performance flight control and autonomous navigation systems using C++, ensuring efficient hardware integration and real-time responsiveness.
- Developed data processing pipelines and user-facing applications with Python, including telemetry visualization tools and computer vision-based solutions for enhanced mission capabilities.

GOODYEAR   Sakarya, Turkey
Information Technology Intern   Aug 2022– Sep 2022

- Analyzed Actively participated in corporate meetings and collaborated with industry experts, gaining hands-on experience with cutting-edge technologies, practical business solutions, and valuable insights into organizational processes and effective time management.
- Conducted extensive research on Blockchain technology and successfully led the development of a web-based voting platform utilizing Blockchain, improving transparency and security in digital voting systems.

UNIVERSITY PROJECTS

AUTONOMOUS TAXI   Oct 2021

- Played a key role in the software development of an autonomous vehicle as part of a large team for participation in the national RoboTaxi - Autonomous Vehicle Competition, contributing to the design, implementation, and optimization of the vehicle's autonomous driving systems; successfully achieved top rankings in the competition for two consecutive years.
- Contributed to the development of the autonomous driving algorithms, utilizing computer vision and object detection algorithms to improve drivable area detection and object recognition, enhancing the vehicle's perception and decision-making capabilities.

ONLINE PDF EDITOR   Feb 2024

- Designed and developed a comprehensive online PDF editor as a university graduation project, enabling users to perform a wide range of PDF manipulations directly in the browser.
- Utilized a tech stack comprising Java for backend services and JavaScript, HTML, and CSS for the frontend, ensuring a seamless and responsive user experience.

ACTIVITIES

MEKATEK   Duzce, Turkey
Software Developer   Oct 2021 – Oct 2024

- Served as a member of the software team in the RoboTaxi project, contributing to the development of the autonomous vehicle's software systems for the national competition.
- Provided Python-based computer vision tutorials to new community members, helping them develop foundational skills in image processing and algorithm implementation.

ADDITIONAL

Technical Skills: Advanced in C++, Python, Java, SQL; Proficient in MATLAB, JavaScript

Tools and Frameworks: Experience with OpenCV, PyTorch, Tensorflow, Numpy, Pandas, Qt/PyQt, ROS2, CUDA, Docker
Certifications & Training: Online Course in Management (Coursera), Passed Resume Worded examinations