

Talha Karasu

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Education

Istanbul Technical University 2024 – 2029

Bachelor's degree, Robotics and Autonomous Systems Engineering

Eskisehir Anatolian High School 2020 – 2024

Experience

ITU Autonomous Underwater Vehicle Team (2 mos) Oct 2024 – present

Software Team Member

Istanbul, Turkey

- Contributing to the development of AUV software using ROS, C++, and Python
- Focusing on localization and trajectory generation for autonomous navigation

FRC Team 9483: Istanbul Wildcats (2 years) Jun 2022 – present

Software Team Member / Mentor

Istanbul, Turkey

- Developed a Progressive Web App (PWA) with Vue.js to collect and analyze scouting data, enhancing the team's match strategy
- Gained experience with advanced control algorithms for pose estimation and trajectory following
- Supported the team in achieving multiple tournament wins and awards, including being the FRC 2024 Houston World Championship Division Winner

Kodesis Automation (7 mos) Jun 2022 – Dec 2022

Web Developer Intern

Eskisehir, Turkey

- Developed and optimized web interfaces for automation projects using Vue.js
- Worked on real-time data from multiple automation systems, streaming it into a unified interface for enhanced monitoring
- Learned to manage tasks within a structured, real-world environment with deadlines

FRC Team 8828: EAL Robotics (10 mos) Sep 2021 – Jun 2022

Team Captain

Eskisehir, Turkey

- Co-Founded the team and trained the software team members
- Developed robot control systems using Java for autonomous and manual operation
- Gained experience with designing electronic systems that utilize CAN Bus
- Led fundraising initiatives, successfully securing \$20,000+ sponsorships to support team operations

Languages

Turkish – Native | **English** – High Proficiency