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Experience

ITU AUV Team

Istanbul, Türkiye

Co-Lead of Autonomous Software

Sep 2025 – Present

Autonomous Software Team Fellow

Sep 2024 – Sep 2025

Contributing and coordinating the development of ITU's 6-DOF Autonomous Underwater Vehicles (AUVs), developed for research and for AUV contests, primarily RoboSub. All work is open-source and available at github.com/itu-auv/auv-software.

- Achieved **3rd place worldwide at RoboSub 2025** hosted by RoboNation in Irvine, CA, USA.
- Primary focus on high-level autonomous task design, high-level decision making, perception and path planning.
- Designing PID controllers, YOLO perception pipeline (detection to 3-D object position), SLAM, sensor-based localization with sensor fusion; integrating data from DVL, IMU, pressure sensors, and cameras.

Keywords: Autonomous system design, SLAM, navigation, decision systems, control theory, extended Kalman filter (EKF), YOLO, ROS, Python, C/C++.

Education

Istanbul Technical University

Istanbul, Türkiye

B.S. Mathematical Engineering (*Transferred*) (GPA: 3.42/4.00)

Sept 2025 – Present

B.S. Control and Automation Engineering

Oct 2023 – Jul 2025

Coursework undertaken before transfer