Mehmet Emin Meydanoğlu

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Experience

ITU AUV Team   **Istanbul, TR**
Software Team Member   *Sep 2024 – Present*

Contributing to 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, path planning and control.
- Working on PID controllers, 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), ROS, Python, C/C++.

Education

Istanbul Technical University   **Istanbul, TR**
B.S. Control and Automation Engineering   *Oct 2023 – Jul 2025*
Coursework undertaken before transfer

B.S. Mathematical Engineering *(Transferred) (GPA: 3.41/4.00)*   *Sept 2025 – Present*