Mehmet Emin Meydanoğlu

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Experience

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

Actively contributing to the development of ITU's 6-DOF Autonomous Underwater Vehicles (AUVs), which compete in the international RoboSub competition and beyond. All code is open-source at github.com/itu-auv/auv-software

- Primary focus on high-level autonomous task design, high-level decision making, path planning and control.
- Involvement in low-level PID controller development, state estimation and localization, and sensor fusion, integrating data from DVL, IMU, pressure sensors, and cameras.

Keywords: ROS, Python, C, C++, pure pursuit algorithm, PID controllers, extended Kalman filter, Gazebo, system design, team collaboration.

ITU Racing Team   **Istanbul, TR**
Autonomous Team Member   *Dec 2023 – Aug 2024*

- Contributed to autonomous driving software development for ITU's Formula Student vehicle.

Education

Istanbul Technical University   **Istanbul, TR**
B.S. Control and Automation Engineering (GPA: 3.28/4.00)   *Oct 2023 – Present*