ODU
Department of Electrical & Computer Engineering

Autonomous Anchorless Marker Buoy

This project's goal is to design, build, and test an anchorless smart marker buoy capable of holding its position autonomously. Using GPS guidance and thruster-based control, the buoy eliminates the need for traditional anchoring, increasing flexibility, scalability, and environmental safety in maritime applications.

Team Members: *RJ Bailey, Taha Bilal, James Ward, Brandon Stuck*

Advisor: *Dr. W. Steven Gray*

Design Challenge

Design and build a functional and cost-effective anchorless smart marker buoy capable of autonomous positioning.

Design Goals

- Construct an operational prototype
- Achieve reliable autonomous positioning via GPS
- Adaptable under various maritime conditions
- Remotely-programmable using GUI

> ***A small buoy with a big mission.***
> ***-RJ Bailey***

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