

Underwater ROV - Personal Project

Project Overview

The goal of this project was to design and build an underwater remotely operated vehicle capable of exploring nearby bodies of water. The project focused on solving real-world challenges associated with underwater robotics.

Technical Details

The ROV was designed with emphasis on waterproofing, modularity, and structural integrity. Mechanical components were 3D modeled and iteratively refined to improve balance and durability. The system architecture supports future expansion, including additional sensors and improved propulsion. This project provided hands-on experience with buoyancy control, sealing methods, and integrated electromechanical system design.

Images

