

Edison Submersibles

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PURDUE STUDENTS COMPETE IN INTERNATIONAL ROV COMPETITION

Aiming for First Place Internationally with Brand New Vehicle

The Purdue IEEE ROV Team has been competing in the MATE (Marine Advanced Technology Education) Center’s ROV (Remotely Operated Vehicle) International Competition for four years. This year they are looking for a win with their latest innovative ROV from the clever minds of its engineers, the *Model N*.  
  
The MATE competition pits school teams against each other to see who can create the most efficient, well-designed, and cost-effective underwater robots to complete an assigned mission. The mission changes every year and has included submarine rescue missions, oil well capping operations and underwater volcano exploration. This year's mission from the MATE Center focuses on seafloor observation networks. The tasks revolve around deploying new instruments and servicing old equipment in one such network designed to measure tectonic activity off the coast of Oregon.  
  
This year the Purdue team, Edison Submersibles (formerly Aperture Aquatics), has built an ROV that is capable of completing the mission in the shortest amount of time. With greater access to machining shops and funding, the team was able to machine all the custom-designed ROV components to the necessary high standards. This includes a lightweight, anodized aluminum frame and custom-designed waterproof enclosure for on-board electronics and pneumatic systems. With the vehicle's power board and control systems designed and mounted by the students, ROV *Model N* represents a logical successor to the team's legacy of power, sophistication, and performance. Perhaps most impressive is the fact that the team designed and constructed the vehicle from the ground up and in house, from the layout of the frame to the software, and including the design and layout of the circuit boards.  
  
The Purdue IEEE ROV Team would like to thank the Indiana Space Grant Consortium, the Purdue Office of the Provost, and SolidWorks Corporation for their support that makes our team competitive at the International Competition in Seattle, WA. With all the advancements the team has made over the past few years, and with a second place finish in 2012, Edison Submersibles sees this year as their shining chance to seize victory at last.