

CLATSOP COMMUNITY COLLEGE S.Q.U.A.D

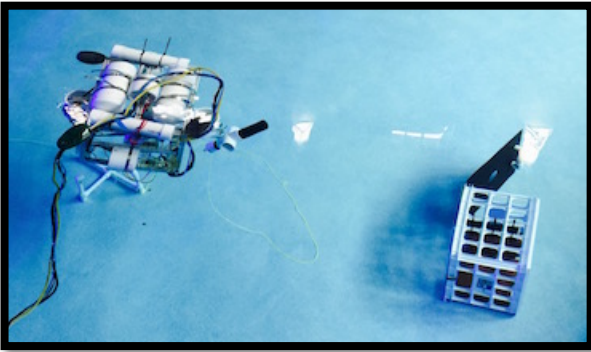
Specialized TasQ-force for Underwater Advanced Development

Magnificus "MAGGIE" Praeseegmen

English Translation: Magnificent Scrap



MATE



Safety Features:

- Main power line is protected with a fuse and reverse voltage protection transistor, and power converters are current-limited to prevent 12V amperages above 36A
- All sensitive electronics are either pressure-housed, rated for ocean depths, or epoxied to prevent shorting and electrical failure
- All solder joints are sealed using ocean-depth-capable hot glue and 3:1 ratio adhesive heat shrink joints

Special Features:

- On-board thrust computation matrix allows the pilot to maneuver a 6-thruster ROV without thinking about thruster combinations. The matrix computes appropriate thruster outputs to achieve basic, intuitive movements through the water.
- An on-board IMU allows the ROV to sense its basic orientation in the water. This later is used for automatic flight stabilization.
- Detachable ocean-depth-rated cable connectors allows the ROV's control tube to be easily detached, removed, inspected, reinserted, and reattached with ease, allowing for easy top-level control maintenance.

Georges Mason Edouard Oates Larsen

- RETURNING Member to MATE
- Sophomore in College
- Mathematics Major
 - CEO
 - Head of Design, Electrical, Software Engineer
 - 1,442 Hours



Darby J. Cullen

- NEW Member to MATE
- Junior in College
- Mechanical Engineering Major
 - VP of Research & Design
 - Secretary
 - 189 Hours



Sam Daire

- NEW Member to MATE
- Freshman in College
- Engineering Major
 - VP of Manufacturing
 - 353 Hours



L Goyena

- NEW Member to MATE
- Freshman in College
- Pharmaceutical Major
 - VP of Publicity
 - Damage Prevention
 - 128 Hours



Pat Keefe

- RETURNING Mentor to MATE
- Physics Instructor at CCC
- Mentor



Total Cost of Project

\$1,331.14

OREGON, USA to TEXAS, USA is 2335 MILES