



O'Donel High School

Design, Develop, Demonstrate, Deploy
Mount Pearl, Newfoundland and Labrador, Canada
7138.5 Kilometers to International Competition

ROV SPECS:

ROV name: ICE, Innovative Competition Entry

ROV size: 40cm x 30cm x 50cm

ROV weight: 10.7kg

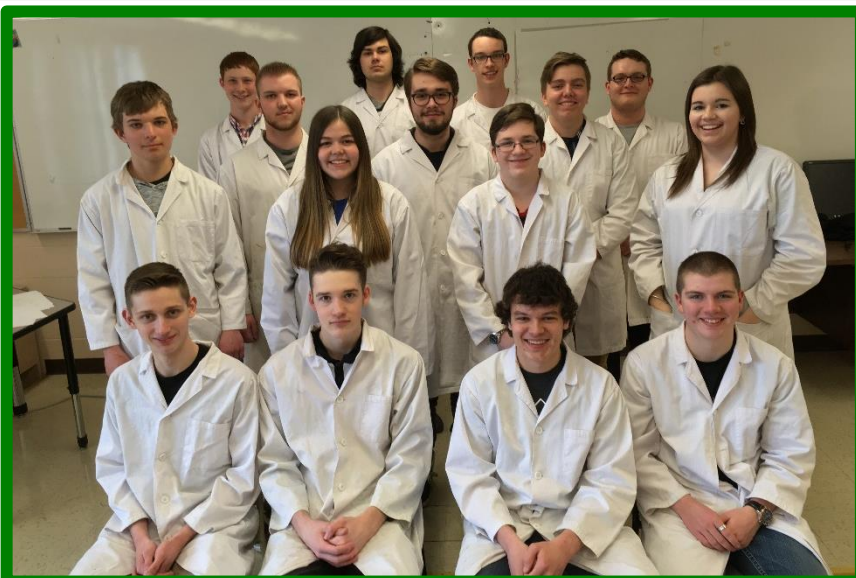
Total cost of New Materials for 2017: \$2,130 USD

Value of Recycled Materials on ROV: \$2,643 USD

Total Student hours to design and build: 800

Safety features: Commercial electrical connectors, rounded frame, no sharp projections, shrouded thrusters, hi-grade electrical and electronics components, 25A circuit breaker at power source.

Special features: All tools are multi-function, non-corroding, unique and proprietary - designed and fabricated in-house, mounted on our CNC routed floating frame (Expanded PVC Foam) and tool skid (which can be separated from thruster unit); high maneuverability achieved by 30° thruster vectoring, multiple POV digital video cameras.



Front Row (L-R): Robin Murphy, Matthew Butt, Joel Hatcher, Clarke Payne.

2nd Row (L-R): Ian Parsons, Melissa Mosher, Lawrence O'Keefe, Abygail Pike.

3rd Row (L-R): Lucas Verge, Zachary Norman, Joshua Mosher,

Back Row (L-R): Michael Chislett, Timur Galiullin, Patrick Breen, Josh Edwards.

Missing from photo: Cassidy Rose, Megan Glover, Zack Froude, Keeley Flynn, Laima Irani, Isaac O'Rielly, Eoin Hurley.



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Staff Member	Role/Responsibility	New/Returning	Grade
Joel Hatcher	President, CEO, Safety Officer	R	12
Robin Murphy	ROV Operations – Pilot, CTO	R	12
Matthew Butt	ROV Operations – Co-Pilot, COO	R	12
Patrick Breen	Manager, Tool Development	R	12
Clarke Payne	Manager, Electronics	R	12
Melissa Mosher	Manager, Graphic Design	R	12
Zachary Norman	CAD Technician	R	12
Josh Edwards	Fabrication Technician	R	12
Cassidy Rose	Public Relations, Tool Development	N	12
Timur Galiullin	Tool Development & Design	N	12
Zack Froude	Fabrication Technician	N	12
Megan Glover	Marketing & Research	N	12
Lawrence O'Keefe	Software Designer, CFO	R	11
Abygail Pike	Manager, Technical Writing, CIO	R	11
Harley Alway	Graphic Design	R	11
Keeley Flynn	Fabrication Technician	R	11
Laima Irani	Research & Development	N	11
Joshua Mosher	Research & Design	N	11
Lucas Verge	Fabrication Technician	N	11
Michael Chislett	Manager, Public Relations	N	10
Ian Parsons	Marketing, Testing	N	10
Issac O'Rielly	Maintenance Technician	N	10
Eoin Hurley	Marketing & Design	N	10

OD-4D Board of Directors: Joseph Santos, James Hickman