

Husky Explorer

Mount Pearl Senior High's Husky Explorer robotics team proudly presents the 2022 Husky ROVER (Remotely Operated Vehicle Eastern Region). This 8 member high school team from Mount Pearl, NL, Canada will travel 7200 km to Long Beach, California for the 20th MATE International Competition.

ROV Specifications:		Safety Features:	Special Features:
Height:	34 cm	<ul style="list-style-type: none"> ➤ Strain reliefs on both ends of tether. ➤ 25A fuse within 30.0 cm of the positive terminal of the power supply. ➤ Main power cut off switches for both the 12VDC supply and the 120VAC supply. ➤ Rounded edges. ➤ Caution labels on all moving parts. ➤ Shrouded thrusters. ➤ Electronics enclosure temperature and pressure sensors. ➤ 40 PSI pressure regulator. ➤ Main pneumatic valve shut-off. 	<ul style="list-style-type: none"> ➤ Computer vision system. ➤ Autonomous driving capability. ➤ 5 degrees of freedom. ➤ System status indicator lights within electronic enclosure. ➤ Temperature, pressure, humidity for data collection. ➤ 90° rotatable and retractable pneumatic manipulator. ➤ Main driving camera with angle tilting capability. ➤ Variable buoyancy system. ➤ Foldable thrusters. ➤ Modular and serviceable design.
Width:	53 cm		
Length:	59 cm		
Weight:	12.3kg		
Total Cost:	\$2,489.73		
Total Design Build Time:	1200 Student-Hours		

Employee's Name:	Role / Responsibility:	Grade:	Career Goal:	New / Returning:
Evan Vokey	C.E.O / Pilot	12	Software Engineer	Returning
Eric Goulding	Mechanical Lead / Co-Pilot	12	Mechanical Engineer	Returning
Gavin Hull	Controls Lead / Programmer	12	Computer Science	Returning
Logan Smith	Chief Financial Officer	12	Engineer	Returning
Ben Riggs	Safety Officer	11	Engineer	Returning
Claire Dinn	Chief Operating Officer	12	Lawyer	New
Claire Murphy	Chief Communications Officer	12	Environmental Chemist	New
Brooke Ledevheat	Human Relations Officer	12	Engineer	New

