

Husky Explorer

Mount Pearl Senior High's Husky Explorer robotics team proudly presents the 2019 Husky ROVER (Remotely Operated Vehicle Eastern Region). We are a returning team of 13 high-school students from Mount Pearl, NL, Canada and have traveled 3,692 km from home to attend the 2019 International MATE Competition.

ROV Specifications:		Safety Features:	Special Features:
Height:	20.5cm	<ul style="list-style-type: none"> ➤ Rounded edges. ➤ Strain reliefs on both ends of tether. ➤ Caution labels on all moving parts. ➤ Shrouded thrusters. ➤ 25A fuse within 30.0cm of the positive terminal of power supply. ➤ Main power cut off switches for both the 12VDC supply and the 120VAC supply. ➤ Electronics enclosure temperature and pressure sensors. ➤ 40 PSI pressure regulator. ➤ Main pneumatic valve cut off. 	<ul style="list-style-type: none"> ➤ Computer vision system for object identification. ➤ System status indicator lights within electronic enclosure. ➤ Temperature, pressure, humidity and gyroscopic sensors for data collection. ➤ 180° rotatable and retractable pneumatic manipulator. ➤ Main driving camera with 45° angle tilting capability. ➤ Deployable secondary ROV. ➤ Variable buoyancy system. ➤ Modular trout and grout release mechanism.
Width:	36.5cm		
Length:	41.0cm		
Weight:	12.1kg		
Total Cost:	\$2,001.93		
Total Design Build Time:	400 Student-Hours		

Employee's Name:	Role/Responsibility:	Grade:	Career Goal:	New/Returning:
Cameron Kinsella	C.E.O / Pilot	12	Aerospace Engineer	Returning
Tim Squires	Mechanical Lead	12	Mechanical Engineer	Returning
Shane Williams	Controls Lead / Co-Pilot	12	Electrical Engineer	New
Kalum Dinn	Chief Financial Officer	12	Physicist	New
Jacob Purchase	Safety Officer	12	Biologist	New
Megan King	Chief Operating Officer	12	Sports Engineer	New
Truman Osmond	Marketing	12	Engineer	New
Mackenzie Fowler	Engineer	12	Computer Engineer	New
Brianna Hillier	Engineer	12	Chemical Engineer	Returning
Allison Manning	Engineer	12	Astrophysicist	Returning
Josh Deering	Engineer	12	Mechanical Engineer	New
Ian Carroll	Engineer	12	Computer Engineer	Returning
Tim Bouzane	Engineer	12	Software Developer	New

