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:
- **Height:** 34 cm
- **Width:** 53 cm
- **Length:** 59 cm
- **Weight:** 12.3 kg
- **Total Cost:** $2,489.73
- **Total Design Build Time:** 1200 Student-Hours

### Safety Features:
- 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.

### Special Features:
- 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.

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

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