TEAM INFORMATION:

**PROVE:**
- David Sampsell - Chief Executive Officer, Grade 12
- Stephen Gahman - Design Engineer, Grade 12
- Benjamin Green - Lead Programmer, Grade 11
- Hannah Smith - Graphic Designer, Photographer, Grade 11
- Natalie Sampsell - Tool Designer, Graphic Designer, Editor, Grade 10
- Timothy Gahman - Tool Designer, Props Designer, Grade 10

**ROV SPECIFICATIONS:**

- **Vehicle Dimensions:** 0.41 m x 0.62 m x 0.29 m
- **Vehicle weight:** 12.25 kg
- **Material:** Primarily Composite, PVC, and Acrylic
- **Estimated ROV Cost – Full Value:** $1,157
- **Safety Features:** A main power switch will shut off the ROV instantaneously in case of an emergency. A 25-amp fuse is also installed in case of a short circuit. Kort nozzles protect people from the propellers.
- **Special Features:** A fully proportional vectored thruster arrangement gives Poseidon Mk III superior maneuverability in all axes of movement. Controlled via an Xbox 360 controller, custom Python software and a Raspberry Pi provides seamless pilot integration. Custom-built motor controllers allow bidirectional fully proportional control of all thrusters. Custom transparent pressure housings allow for easy inspection and removal of electronics. A rotating tool mount (RTM) allows multiple tools to fit into a compact space while still providing full functionality.