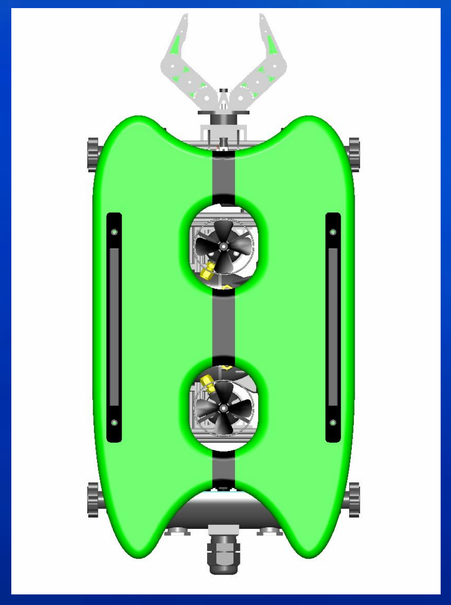
Sea-Tech 4-H Club Presents

Team Europa

Mount Vernon, Washington, USA (91 miles from KCAC)

“Between Marianas and the moons of Jupiter… servicing your sensors”

Identity



Europa Plan View

Left to right: Preston, Hannah, Gunnar, Dean, Claire, Tony and Shelby

Inspiration

Deepsea Challenger Sub

NASA DEPTHX ROV

<u>Preston Peterson</u>: Team Captain, CEO and Propulsion - 10th grade at Mt. Vernon High School 4th year in MATE.

<u>Gunnar Hogland</u>: Station Manager and Leading Edge Actuation - 9th grade home school, 1st year in MATE.

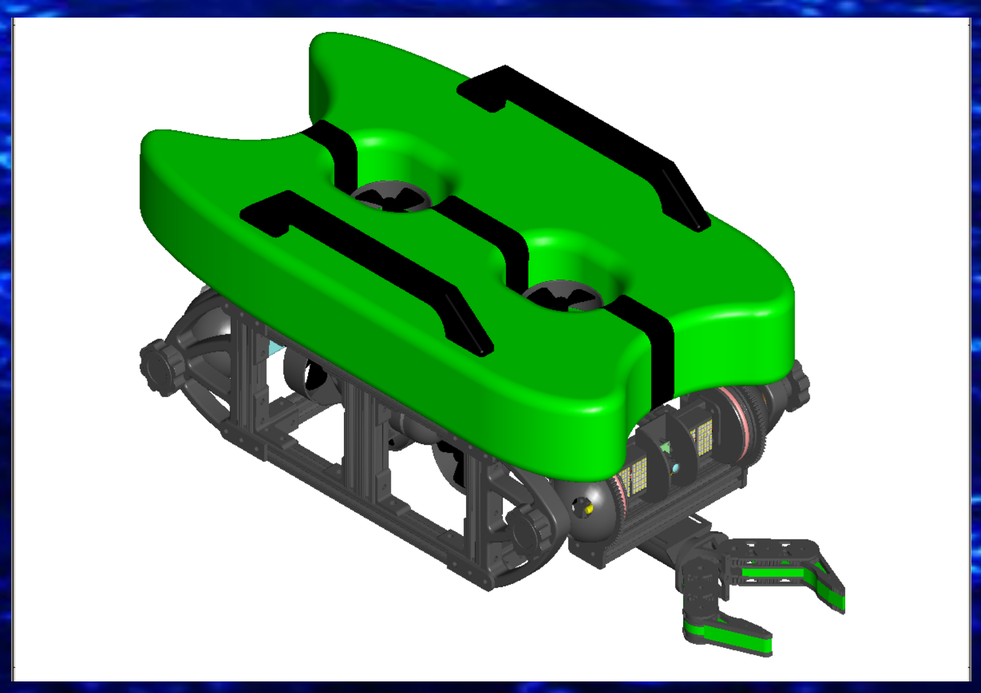
<u>Claire Dimock</u>: Science Officer and Engineering Documentation - 9th grade at Mount Vernon High School, 1st year in MATE.

<u>Shelby Heim</u>: Tether Tender and Vision / Sensor Systems - 10th grade at Mount Vernon High School, 2nd year in MATE

<u>Hannah Anderson</u>: Science Officer, CFO and Mission Tools - 9th grade at Sedro- Woolley High School, 1st year in MATE.

<u>Dean Jones</u>: Pilot and Electrical Engineer -12th grade home school, 6th year in MATE.

<u>Tony Harvey</u>: Mission Commander and Frame / Buoyancy - 10th grade at Burlington Edison High School, 1st year in MATE.



<u>ROV Europa Specifications:</u>

Dimensions- 99cm L x 45cm W x 37cm H

Total Dry Weight- 34.9 kg

Materials- anodized aluminum, urethane foam, cast acrylic tubing, poly-ethylene, stainless steel fasteners, epoxy, lead and gel candle wax

Total Cost- $2039 purchased; $4824 donated

Safety Features- guarded propellers, emergency shut-off switch, no pressurized power systems, encapsulated interconnects.

Features- stable platform, articulated leading edge camera/claw assembly, removable tether, adaptable frame, wide range parallel gripper.