

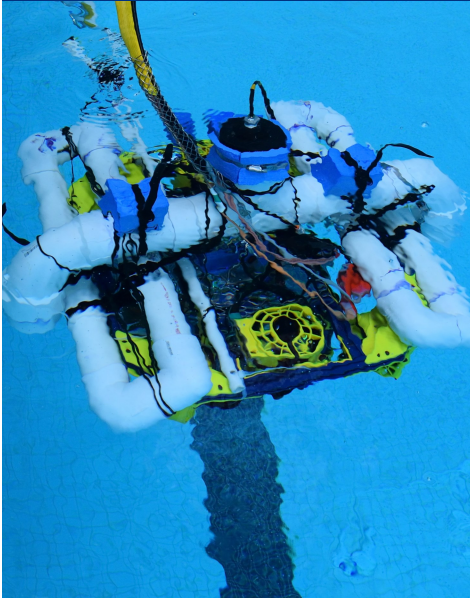
# LBCC ROV TEAM

Linn Benton Community College ROV  
Oregon, USA



## History of the Linn Benton Community College ROV Team:

- The LBCC ROV team has been competing in MATE competitions



## 2019 EXPLORER Class

**ROV name:** Beta

**Safety features:** Different sizes and shapes of connectors are used to ensure there are no wrong connections. Thrusters are within a shrouded casing to ensure propellers are not a finger hazard. Metal components have been powder coated to ensure that sharp edges are eliminated. Fuses are used in the power conversion boards to ensure that the boards do not short in a failure.

**Special features:** Modular components including detachable tether, thrusters, receiver Arduino, cameras, and power conversion in order to build a platform with room for improvement.

**Total student-hours to design and build:** roughly 10,000 hours from September 2018 to May 2019

**Total cost:** \$4,267.50

**Size:** 55 cm X 52 cm X 19.4 cm (L X W X H)

**Weight:** 13.8 kg, out of water.

**Distance Required to Travel:** 1,189.8 km



Nathan Alexander, software engineer -1st year  
Joey Bernards, production engineer -2nd year  
Everett Brandt, electrical & software engineer -2nd year  
Hunter Cato, pilot & CTO -1st year  
Mike Furrer, production engineer -1st year  
Caleb Hedin\*, CFO -1st year  
Heather Hill, mentor -1st year  
Trinity James, CEO -2nd year  
Jesse Kayne, production engineer -1st year

Keana Kief, technical writer -1st year  
Sara Leathers, design engineer -1st year  
August May\*, marketing -1st year  
Greg Mulder, mentor -9th year  
Emily Nussdorfer, graphic artist -1st year  
Jason Pfahler, design engineer -2nd year  
Jenny Smucker, co-pilot -1st year  
Wyatt Weaver\*, mechanical engineer -2nd year  
Emma Wycoff, production engineer -2nd year

There are Freshman to Junior level college students on the team, including physics, math, biology, chemical engineering, mechanical engineering, electrical engineering, and computer science majors.