

Autonomous Boat Project

Project Advisors: Professor David Reinkensmeyer



BACKGROUND

- The Microtransat Challenge encourages teams to cross the Atlantic Ocean autonomously
- Over 30 teams have attempted and failed to meet the challenge
- Autonomous technology will be the next generation of transportation

GOALS & OBJECTIVE

- Design and develop an autonomous boat capable of
- Navigating itself across the Atlantic Ocean
- Maximizing fuel and energy efficiency
- Utilizing multiple energy sources
- Featuring fail-proof computer systems

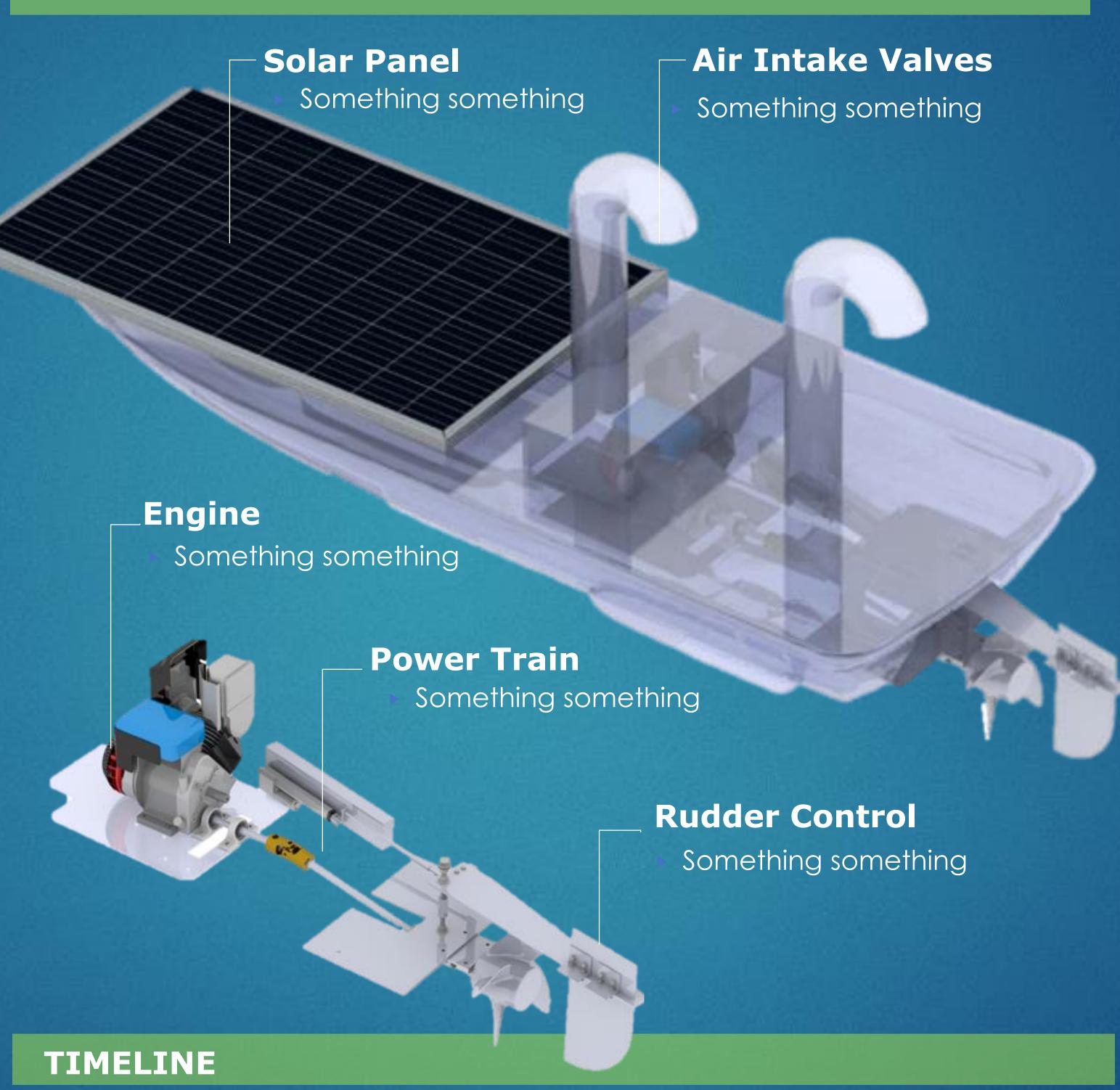


REQUIREMENTS

IMPORTANCE AST MOST

- Constant Satellite Communication
- Energetically Autonomous
- Solar Power Generation
- Engine Efficiency

INNOVATION



TEAM



From left to right: Mercedeez Aquino, Connor Kingman, Francisco Vega, Chris Bennett, Kevin Kuan, Sam Eubanks, Justin Ringhofer, Phillip Friedman, Jonathan Tang, Jared Smith, Patrick Canler, John Ellington, and Nick Parks

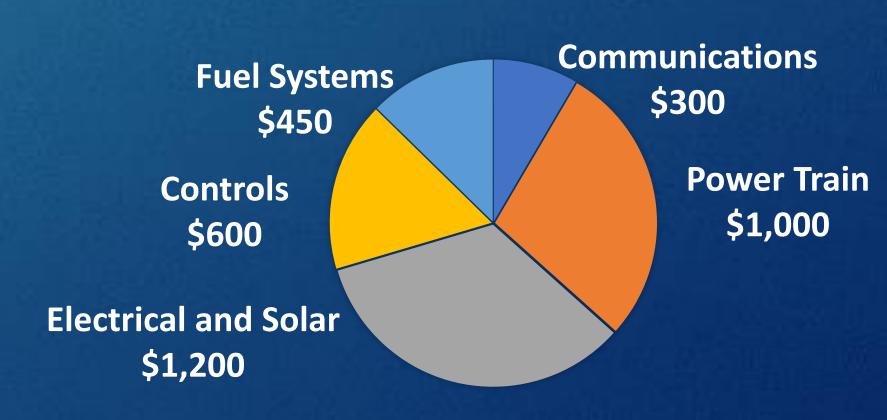
CURRENT STATUS

- Finalized program for autonomous navigation
- Implemented fuel systems, control systems, and drive train
- Installed steel cover for boat and engine

NEXT STEPS

- Complete water intrusion
- Assess and refine the boat design based on Catalina Trip
- Compete in the Microtransat Challenge across the Atlantic

BUDGET



CONTACT INFORMATION

Project Lead – Connor Kingman - ckingman@uci.edu

Boat Hull and Engine Acquisition

Power Train
System
Installation

Initial Water Testing at Balboa Bay

Electrical
System
Installation

Top our Catalina Voyage