

Part Design and Manufacturing

Drive Gear

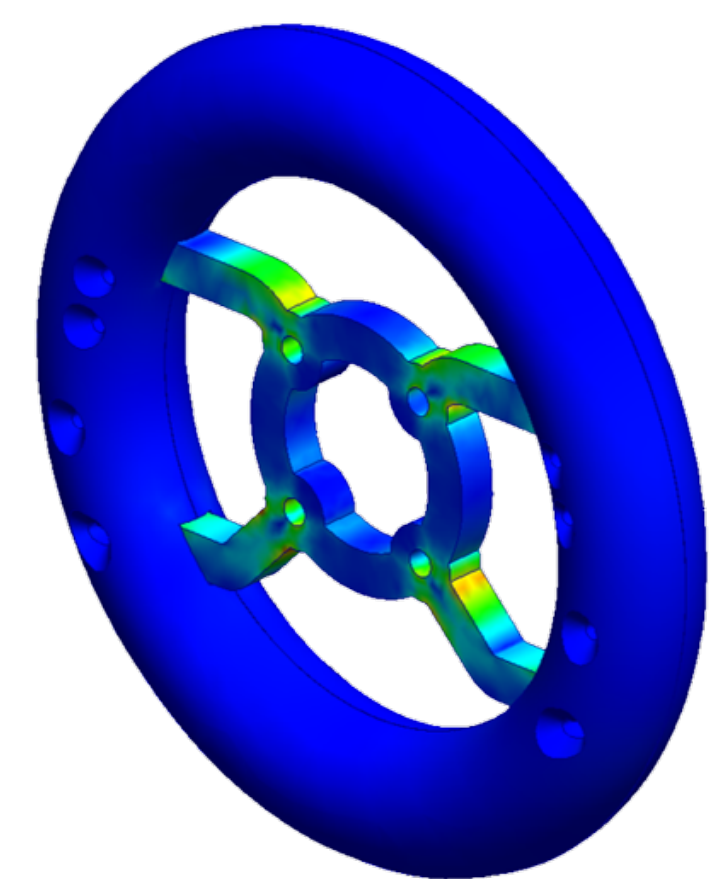
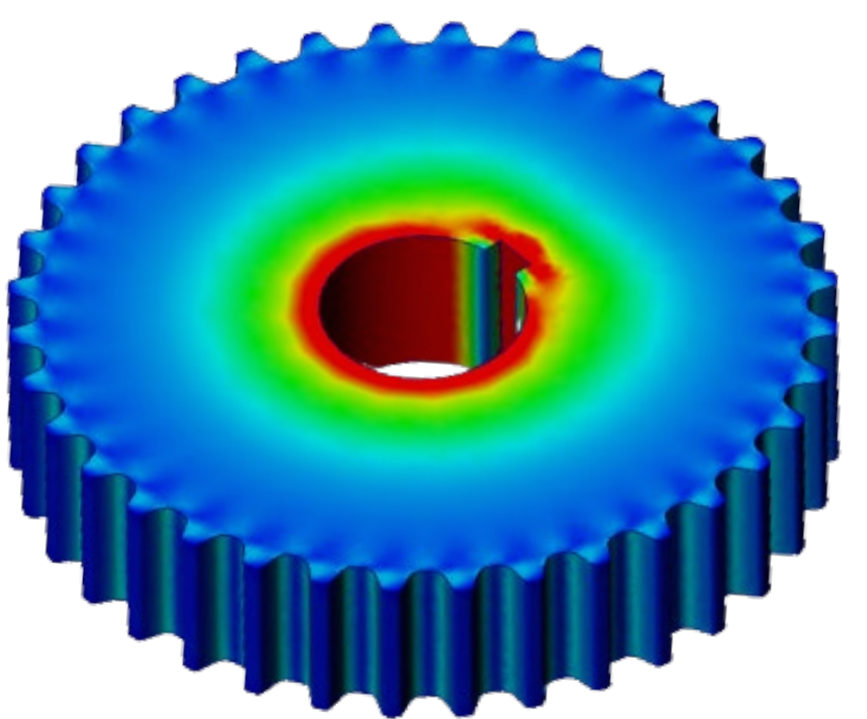
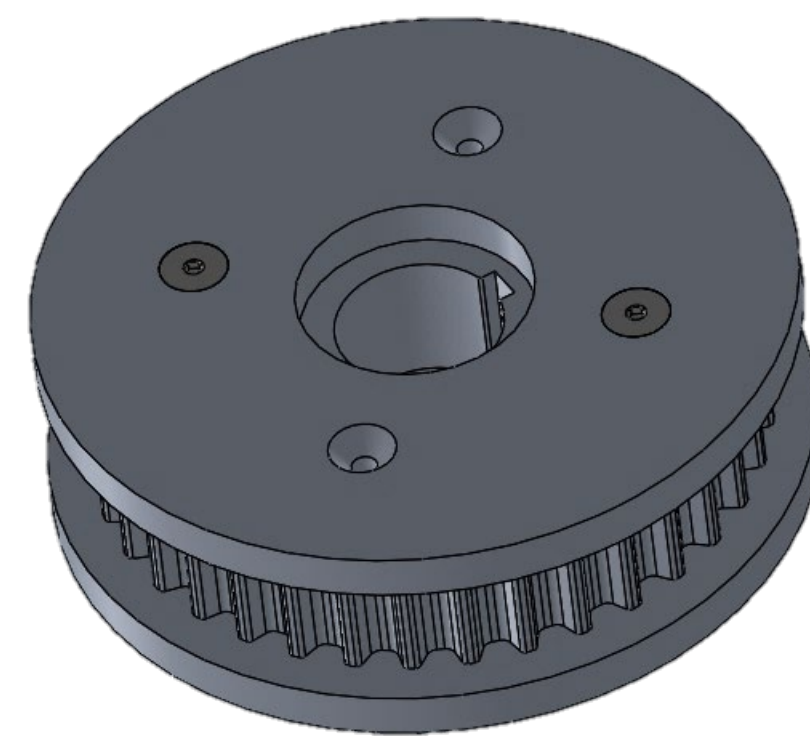
Steering Wheel

CAD Modeling

Finite Element Analysis

Manufacturing

Finished Product



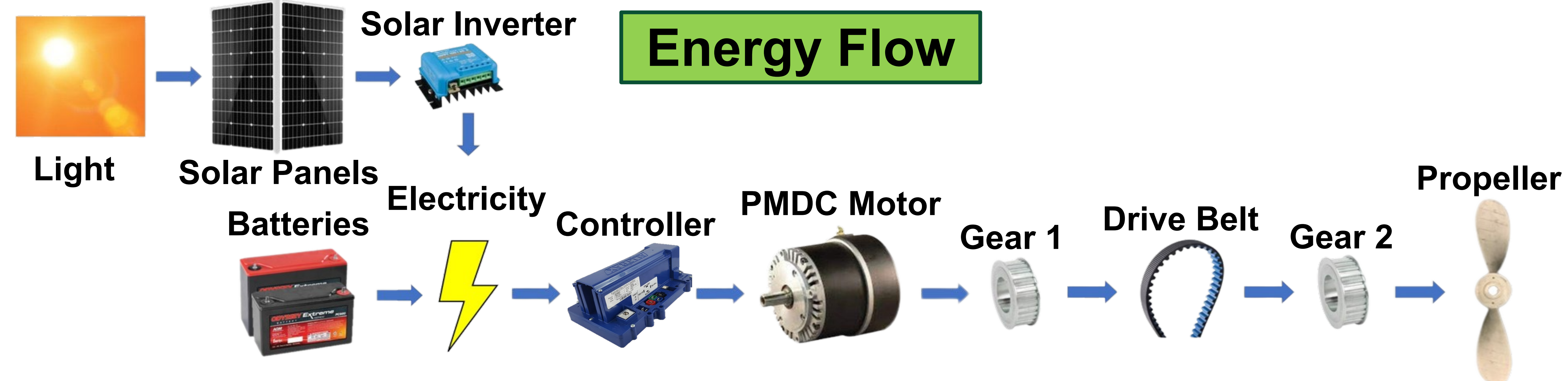
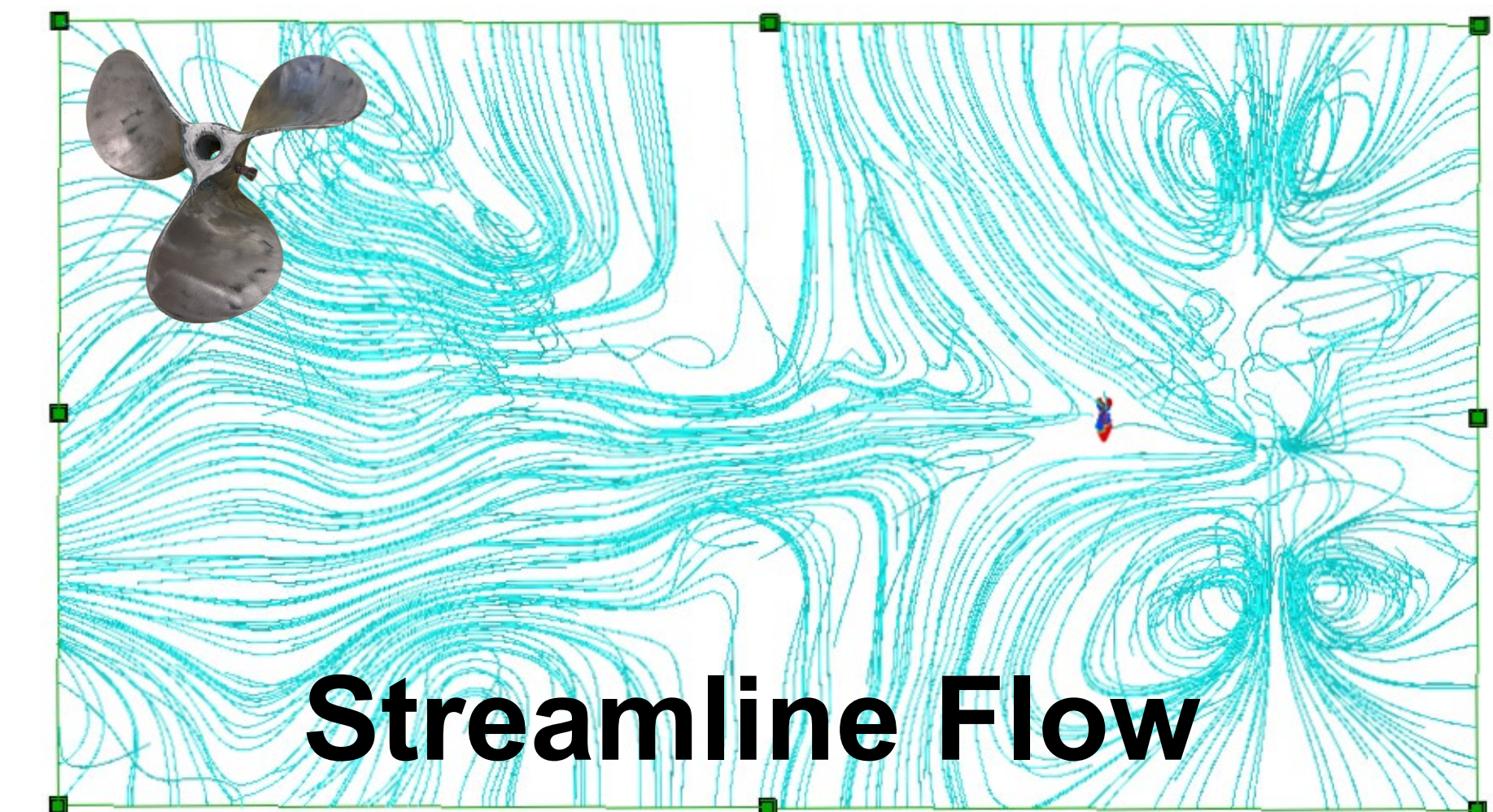
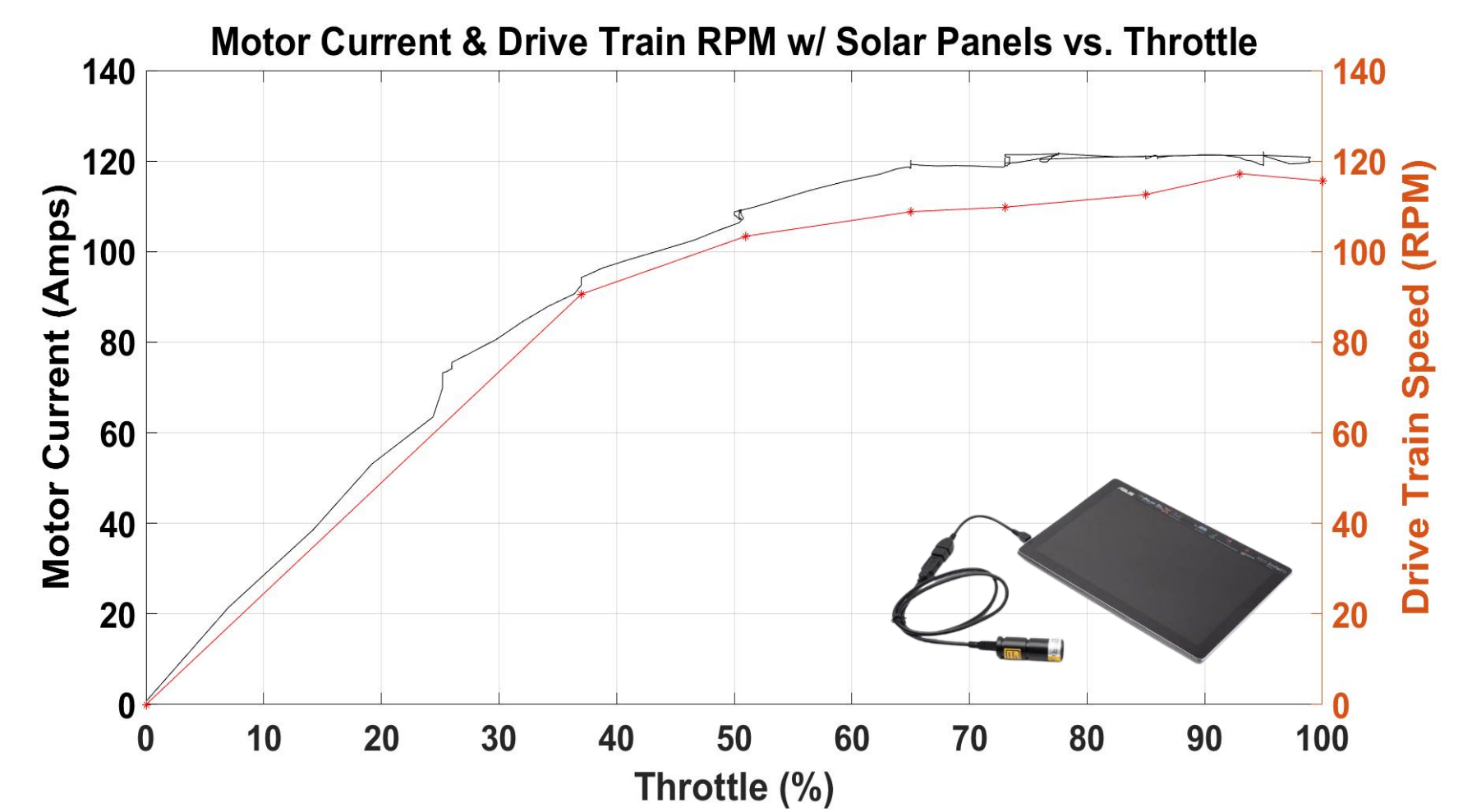
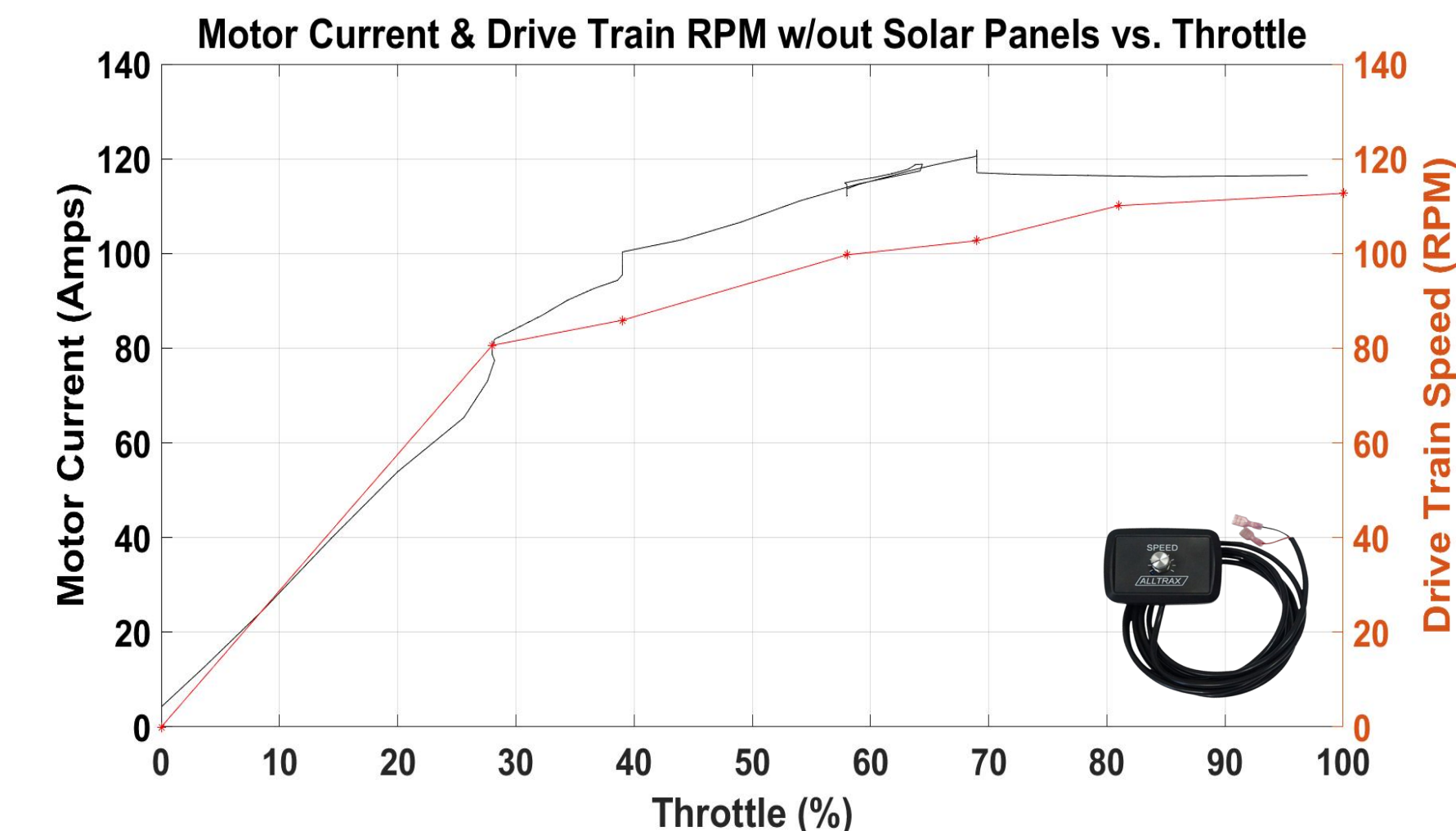
Project Overview

Objective: In the interest of progressing renewable transportation, we were tasked to create a solar-powered boat that is fast, agile, and efficient.

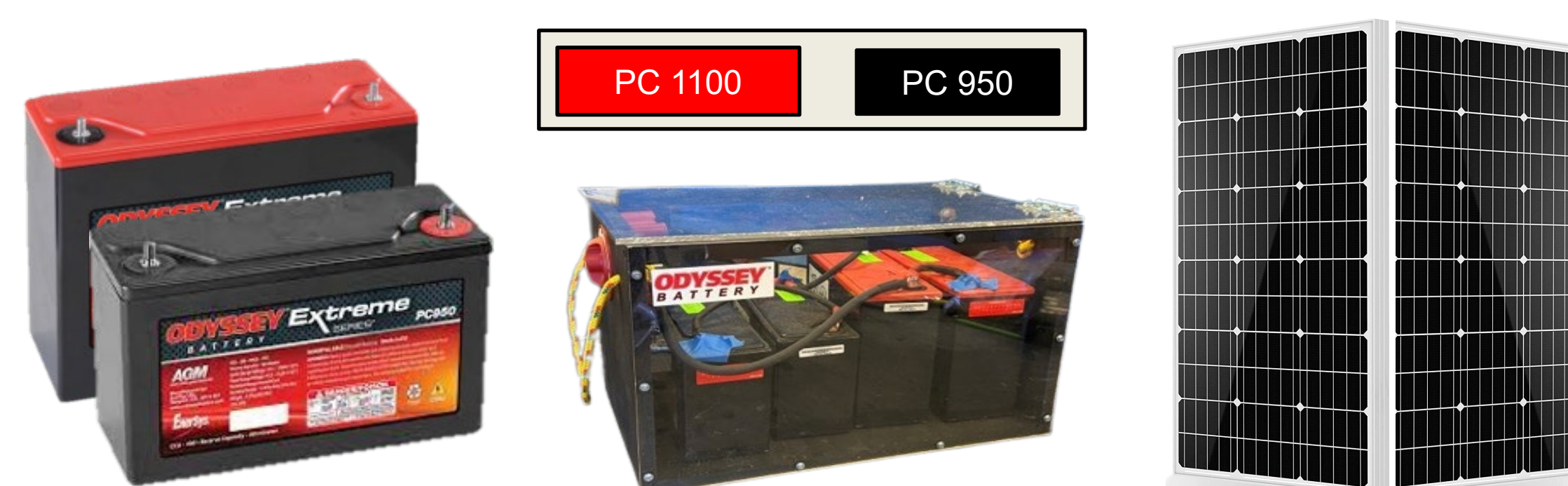
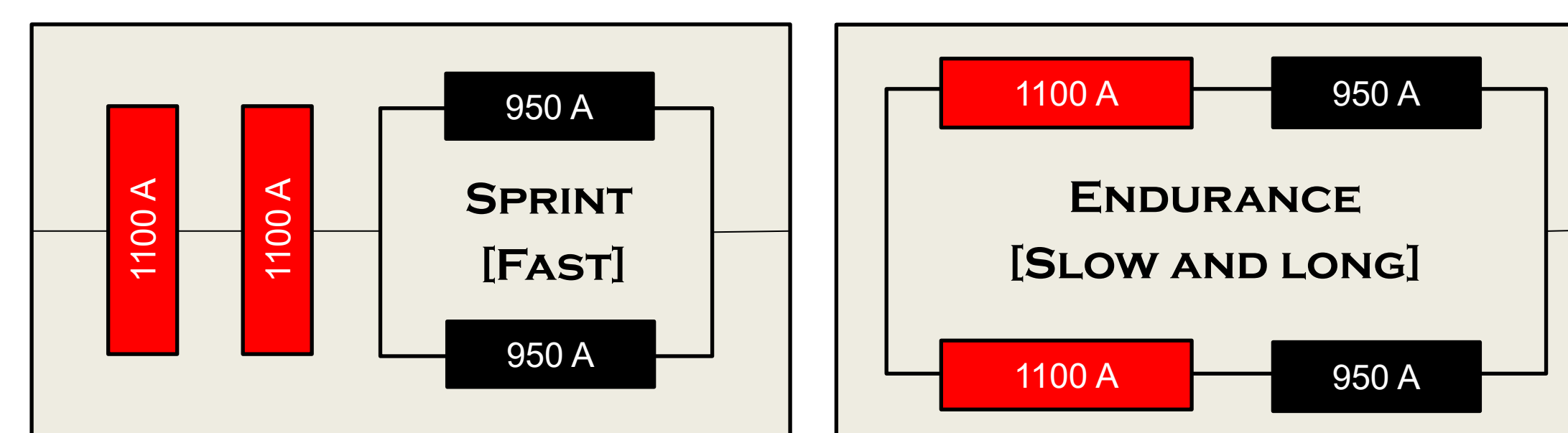


- Carbon Fiber Hull
- Custom Trailer
- 4 Solar Panels
- Brushed DC Motor
- Lateral Stabilizers
- 36 and 24 Volt Lead-Acid Battery Packs
- Various Propellers & Gear Ratios
- Operator Safety Systems & Equipment
- Front Facing Propeller
- Custom Steering Wheel
- Data Motoring Tablet

Data



Battery Configurations



Competition

4-Day Competition including:

- 4-hour endurance race
- 300-meter sprint race
- Slalom race



June 6-10, 2023,
 Clark County Fairgrounds,
 Springfield, Ohio

Testing

Lake



Tank

