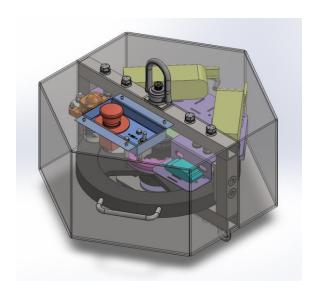
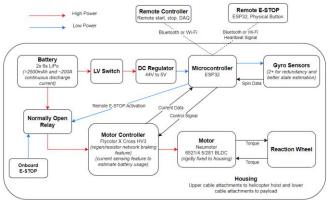


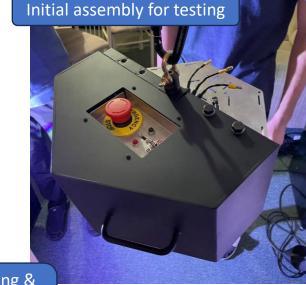
SpinStop | Helicopter Rescue Spin Stabilization System

Creating a reaction wheel based stabilization system for hoisted payloads as part of my 4th year design project

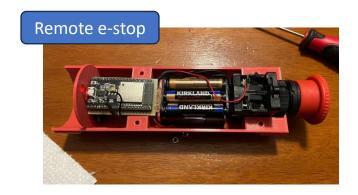




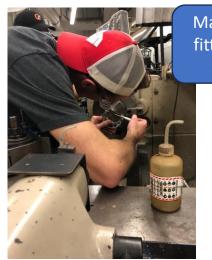
Max: 5.174e+07 4.139e+07 2.587e+07



System modelling & simulation











Motorcycle Rebuild

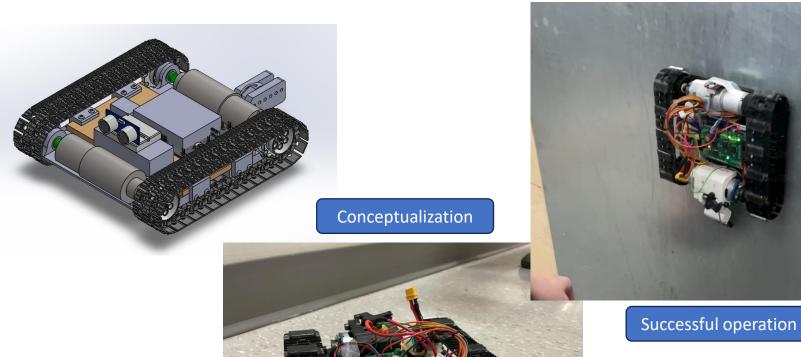
Rebuilding a 1973 Honda motorcycle: full teardown, repair, harness rebuild, missing component fabrication





Wall Climbing Robot

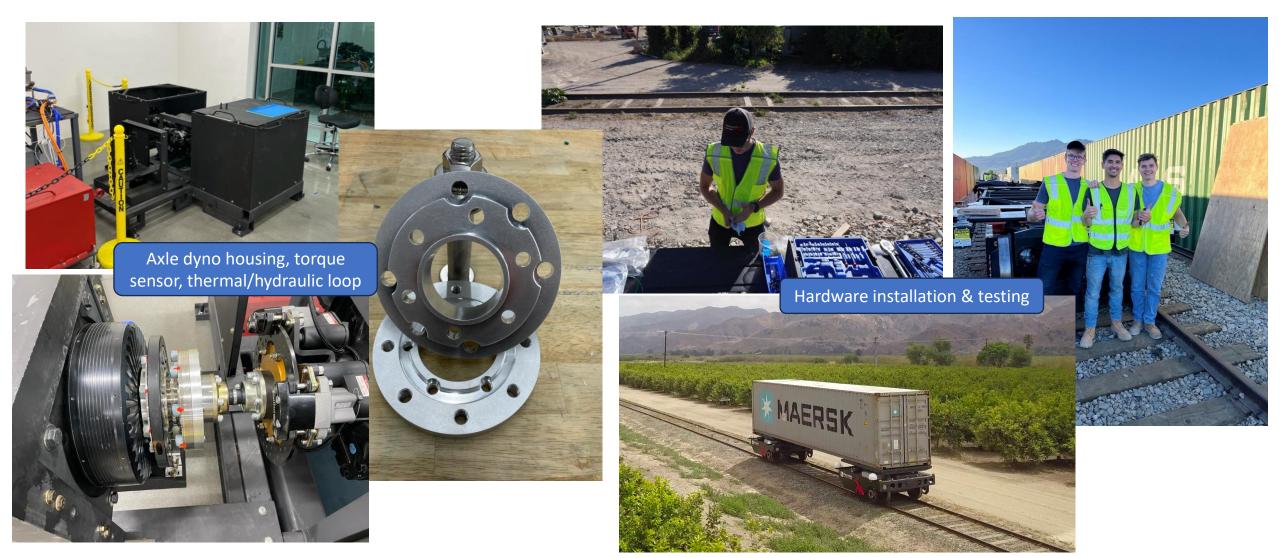
Built an autonomous rover-style walk climbing robot





Parallel Systems | Autonomous Train Hardware

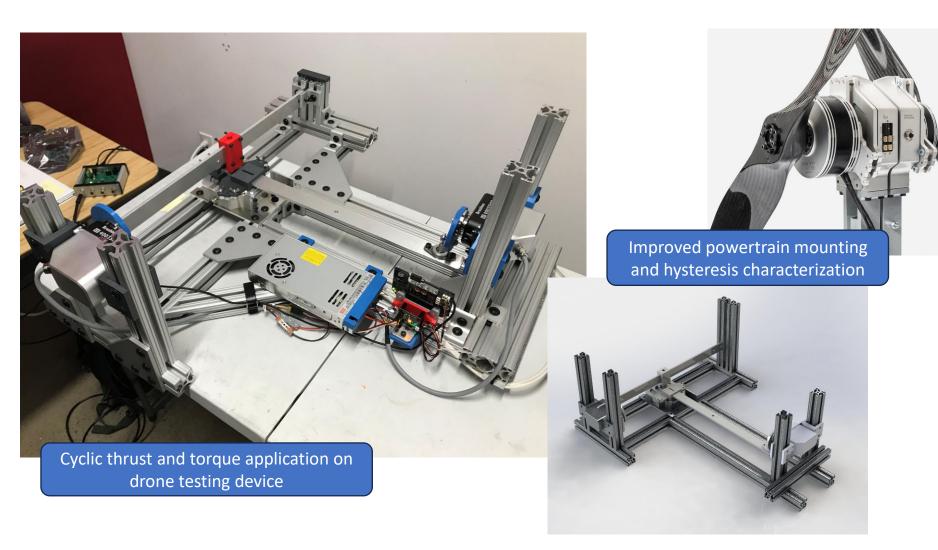
Lead the design of an axle dynamometer, developed a custom bearing design workflow, prototyped a hydraulic parking brake system

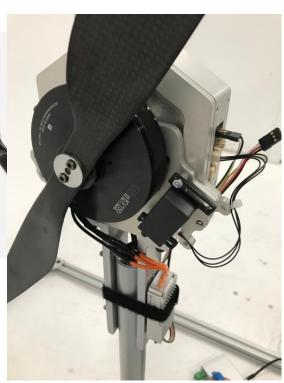




Tyto Robotics | Fatigue Testing Machine

Created a custom fatigue testing machine for drone powertrain benchmarking equipment





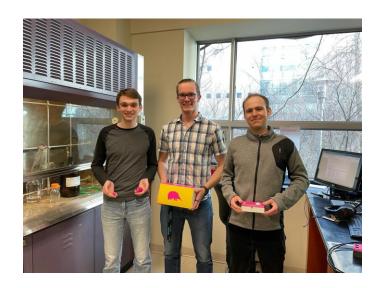
Drone powertrain benchmarking with testing device



Ekidna | Product Design

Performed mechanical product design of a novel consumer electronic device and improved injection molded component design







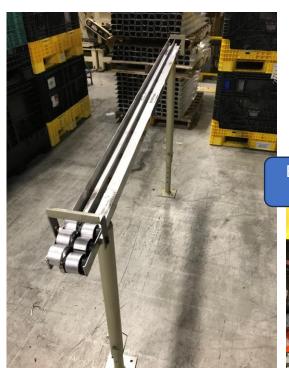






Raufoss Neuman | Automotive Factory Line Expansion

Designed tools and fixtures for an automotive suspension manufacturing line addition



Bushing tracks & sensor mounts









Metalworking, Woodworking, Landscaping

Undertaking various projects in my free time to hone my welding, machining, woodworking, and heavy machinery skills









