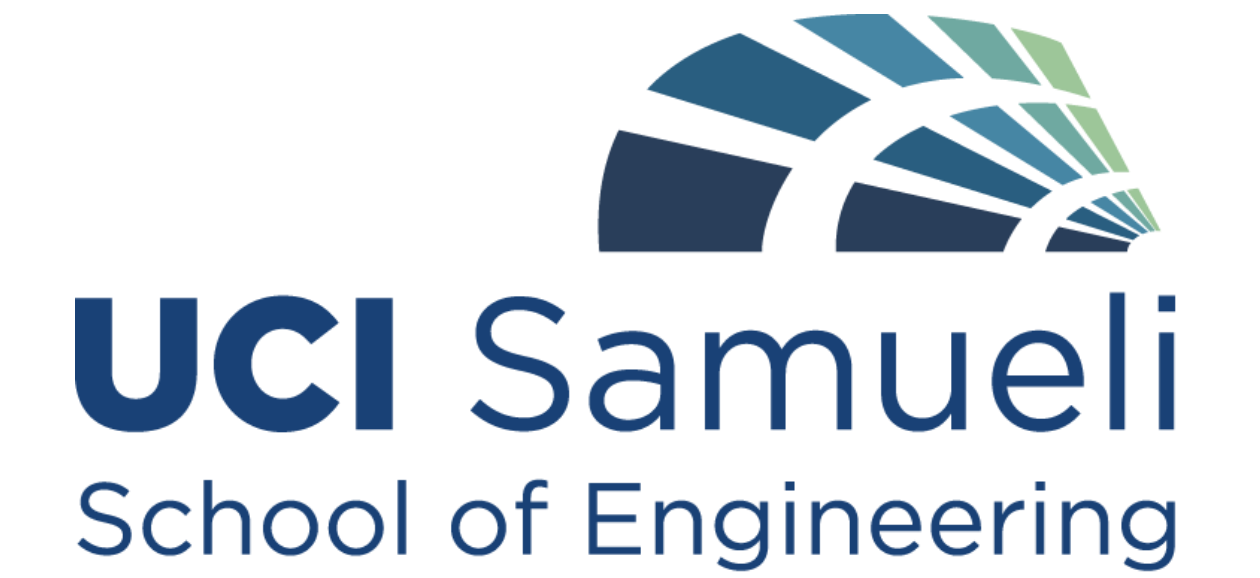




MPOWRD



Manual Patient Operated Wheelchair Rehabilitation Device

Goals & Innovation:

Develop a device that will allow patients with unilateral weakness to attain mobility while simultaneously rehabilitating the affected arm.

Design Requirements:

- Cost effective design
- No tools needed for assembly
- Use widely available components that are easily repaired/replaced
- Retain wheelchair's original functionality



Timeline:

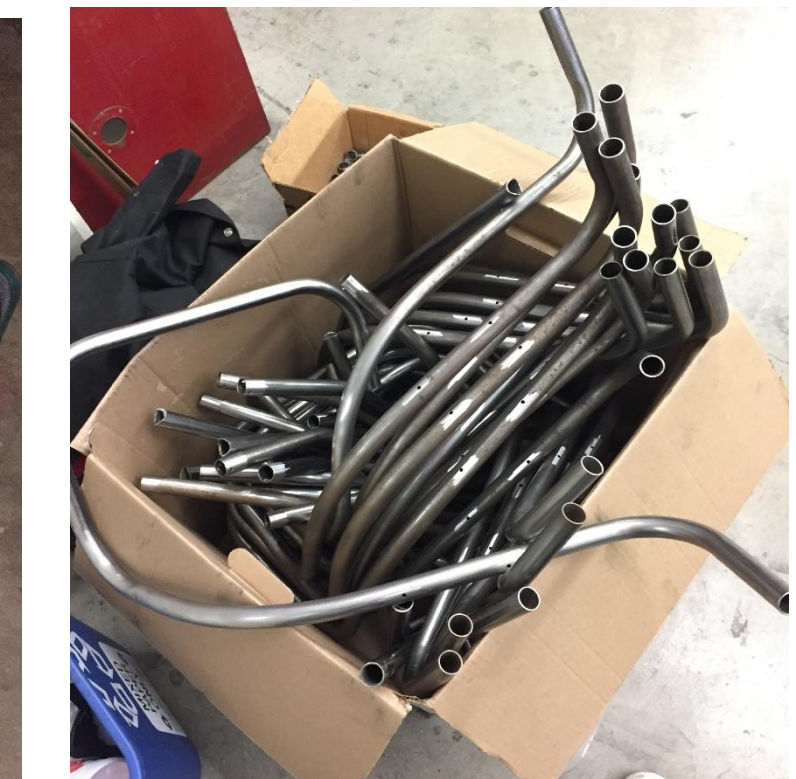
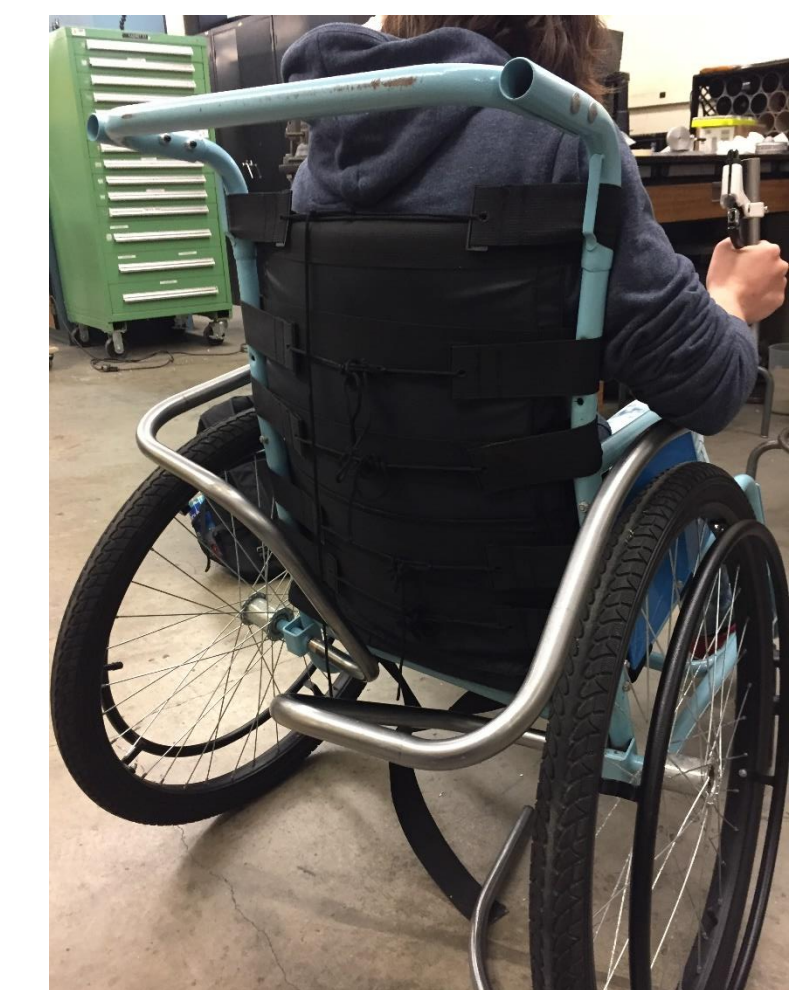
- Week 2:** Modify Design
- Week 3:** Meet With Free Wheelchair Mission Representatives & Order All Materials
- Week 6:** Receive Tubing from Fabricator
- Week 7:** Weld Frames
- Week 9:** Receive Frames from Powder Coating Sponsor, Begin Final Assembly, & Coordinate Malawi Patient Trial Plans
- Week 11:** Yoke the Brakes



Budget: \$550

- Braking Components - \$40
- Raw Materials - \$90
- Fasteners - \$20
- Fabrication - \$400

Progress:



Team:

Team Manager: Selina Eich, seich@uci.edu; Purchasing Manager: Scott Bahl, snbahl@uci.edu; Safety Officer: Kevin Pelletier, pelletik@uci.edu; Advisor: David Reinkensmeyer, dreinken@uci.edu