



Bicycle Handlebars for a Below Elbow Amputee User

Team Handlebar Heroes



SAN DIEGO STATE
UNIVERSITY

Project Overview

Overview

Quality of Life Plus, a national organization that aids and improves the lives of veterans sponsored our team. Team Handlebar Heroes were asked to design and manufacture bicycle handlebars for a bilateral amputee user.

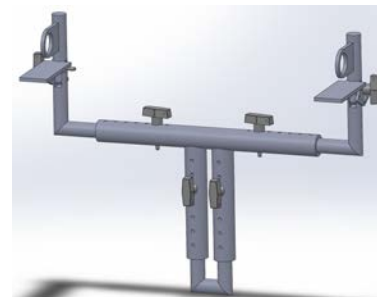


Design Requirements

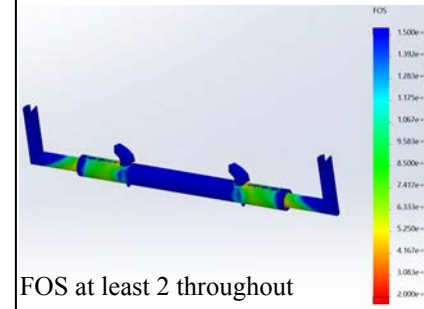
- Adjustable
- Portable
- Easy for user to hook in and out of
- Compatible with current prosthetic set up
- Attachment for armrests
- User friendly

Design

Solid Model



Analysis



Meet the Team

Olivia Di Santo
Supply Chain Manager

Christian Mercado
Manufacturing Lead

Jacob Dayton
Design Lead

Matthew Buoncristiani
Project Manager

Fabrication & Assembly

Prosthetic



Ring Attachment



Structure Assembly



Spring 2020