



# QUALITY OF LIFE PLUS

Engineering an improved quality of life for those in need

*“The Quality of Life Plus Student Association is dedicated to engineering a better quality of life for those in need.”*

First General Meeting - September 15, 2020



Stay Connected!

# Formal Design Projects (FDPs)



Arm for Tim

Hands for Julian

DRC Tram App

# Formal Design Projects (FDPs)



- ***Engineer a solution to a problem in order to ensure a better quality of life for those in need***
- Work with a cohesive team lead by a team lead
- Expected time commitment = 5-10+ hours per week
- Present your design to our officer board and any guests you choose to invite during quarterly design reviews



# Quarterly Design Project (QDP)



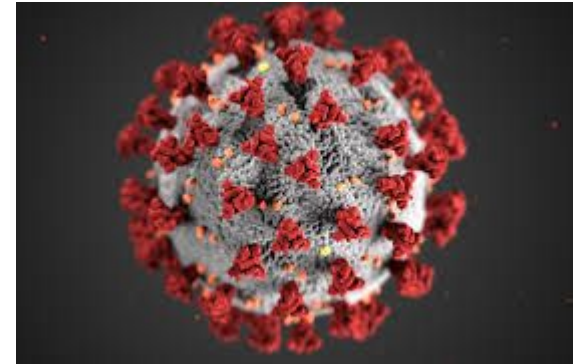
- Work with a team of 4-6 engineers to design, prototype and find a solution to a given problem
- Occurs during general meetings - Tuesdays 6:10-7:00
- All majors/years accepted - no experience needed
- Present design solutions at the end of the quarter



# Quarterly Design Project (QDP)



- **Prompt: Design and (if possible) prototype new PPE (Personal Protective Equipment)**
  - More comfortable/adjustable face mask designs, convenient hand sanitizer holders, compact/comfortable face shields, etc.
  - Specific prompt will be announced during our second general meeting (9/22)



# LLEAP (Lower Limb Exoskeleton Assist Project)



- Designing and building powered exoskeleton
- 55+ students spanning all engineering disciplines working in small teams:
  - Controls team
  - Machine Learning team
  - Mechanical team
- **Fall Quarter: Crash Course 1 hr/week (less hectic) time & day TBD**
  - Intro to Exoskeleton design



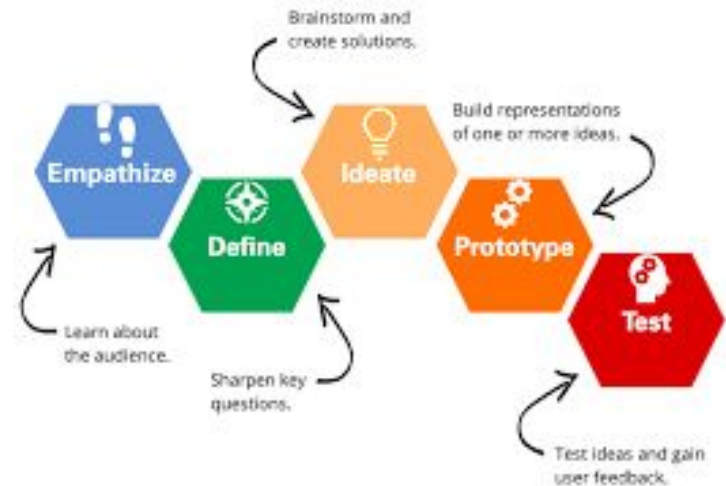


# Workshops

- Develop and obtain knowledge to supplement your engineering skills
- Fully virtual with a DIY At Home aspect
- Interactive, hands-on activities while staying safe
- Includes skills like Finite Element Analysis, Prototyping, Arduino, etc.

## First Workshop:

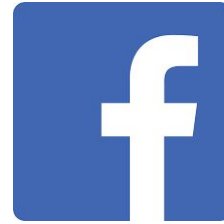
- **Human Centered Design**
  - Saturday (9/26); Time TBA
  - Develop an engineering solution focused on helping individuals.
  - Incorporate the human perspective to make your designs work better.



# Contact



- Email: **cpqlplusops@gmail.com**
- Facebook: **@calpolysloql**
- Instagram: **calpoly\_qlplus**
- Website: **cpqlplus.com**
- Weekly Meetings on **Tuesdays @ 6pm**
  - First general meeting 9/15 (recap of this info & additional Q&A)







[Don't forget to get added to our email list!!](#)