

# Samid Ceballos

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## EDUCATION

**California State University, Long Beach**

Bachelor of Science in Mechanical Engineering, GPA: 3.8

**May 2022**

Long Beach, CA

## SKILLS

- **Software:** SolidWorks, LabVIEW, Arduino/C++, MATLAB, Python
- **Hardware:** Integrating sensors and actuators (servo and DC motors), Soldering

## RESEARCH EXPERIENCE

**California State University, Long Beach**

**June 2020 – June 2022**

*NIH BUILD Scholar*

Long Beach, CA

- Independently worked on a project to measure hand forces and torques for evaluation and rehabilitative training of individuals with hand impairment
- Redesigned a device to improve force measurement accuracy
- Integrated force sensors, a torque sensor, and a motor for varying haptic feedback
- Designed an adjustable wrist brace to explore the effect of wrist angle on grip-load coordination
- Created a GUI in LabVIEW for data acquisition and to provide visual feedback to the user
- Presented my work at various symposiums to a range of audiences

**Summer Research Opportunity Program (UMich)**

**June 2021 – Aug 2021**

*Research Intern*

Ann Arbor, MI

- Worked alongside two graduate students on a powered knee-ankle prosthetic leg
- Optimized 3D printed parts which improved the testing experience and reduced leg weight
- Collaborated on the remote control of a treadmill and mocap software, Vicon, that enabled the team to test the prosthetic leg and controller over continuously varying walking activities

## TEACHING EXPERIENCE

**California State University, Long Beach**

**August 2019 - May 2020**

*HSI-STEM EXCEL Peer Mentor*

Long Beach, CA

- Mentored incoming pre-engineering freshmen by coordinating 3 one-on-one meetings with them per semester
- Helped them transition into college by informing them about the resources and clubs on campus
- Tutored students in lower and upper division engineering classes including SolidWorks, MATLAB, Fluid Mechanics, Statics, Mechanics of Deformable Bodies, and Thermodynamics