

# Joshua Pauls

paulsj@oregonstate.edu

Phone: 541-974-4665

## Skills:

- Electronic circuit design and fabrication
- Solidworks
- Autodesk Fusion 360
- Arduino
- C and C++
- Simplify 3D
- Sli3er
- Microsoft Office suite

## Academics:

- 4.0 GPA over 183 credits at Oregon State.
- Electrical and Computer Engineering Major with a minor in Computer Science and Music Performance.
- Received Drucilla Shepard Smith Award, honoring students who earn a 4.0.
- Member of Phi Kappa Phi, which recognizes dedication to academic excellence.
- Invited to join Mortar Board

## Experience:

Electrical and Mechanical Designer, Go Baby Go

*April 2019- Present*

- Designing and building prototype of electric wheelchair for disable children.
- Creating electronics and custom PCB.
- Designing wheelchair frame using Fusion 360.

Courtyard Chore Manager

*June 2019- Present*

- Get class and work schedule from each resident and assign them chores.
- Designing and implementing program to automate chore assignments using C++.
- Train new residents how to complete chores.
- Enforce chore completion.

Intern, OSU Dynamic Robotics Lab

*June 2016- August 2016*

- Designed and constructed 3D printer's electronics housing using Solidworks and Lasercutter.
- Re-wired printer to improve safety and cable management.
- Installed print bed tramming system.
- Re-created and tuned 3D printer firmware using C++ and Arduino.
- Utilized test prints to troubleshoot Sli3er settings and improve quality and reliability.

Design Captain, FIRST Robotics

*September 2016- June 2017*

- Created gameplay strategy.
- Prioritized robot functions.
- Used Solidworks to design robot.
- Trained team in robot design and Solidworks.

Built Two 3D printers

*August 2016- Present*

- Used Solidworks and Fusion 360 to design and print mechanical upgrades to improve print quality and reliability.
- Used electronics knowledge to design and install electrical upgrades to improve printer safety and user interface.
- Used Arduino programming to modify printer firmware to improve safety, performance, and user interface.