

Mason Wegert



Education

Aug 2014-
May, 2017

Idaho State University, Mechanical Engineering

Cumulative GPA: 3.79 | Major GPA: 3.84

Significant SolidWorks and Matlab experience in various courses. Designed and modeled parts/assemblies, many of which were 3D printed.

- Wrote a proof-of-concept FEA solver in matlab for an arbitrary set of nodes and elements.
- Created wireless glove that used bending sensors and an IMU to animate the hand's motion in Java and detect sign language letters.
- Created a 2 digit LED display showing real-time temperature measurements derived using a thermistor.
- Designed and built a rotational system consisting of two pulleys, which would respond to an input torque and use a negative feedback loop to return to its original position.
- Designed in SolidWorks, then built and programmed a quadcopter with an Arduino microcontroller and Bluetooth communication.



Work Experience

Dec 2015-
Jun, 2016

MURI Internship

ISU Geology department

- Real-world data collection and open channel fluid dynamics work in local river.
- Wrote code to organize time series data files, then created animated plots and performed data analysis in Matlab.

Jan 2017-
Apr, 2017

Matlab Programmer

ISU Audiology department

- Performed Matlab analyses of auditory data taken inside patients' ears. Wrote programs to quickly compile hundreds of files and perform statistical analyses.

May 2016-
May 2017

Kinematic Synthesis Research Assistant

ISU Mechanical Engineering Department

- Worked with and updated software written in Lua and C for the kinematic synthesis of general robots in 3-dimensions with Dr. Alba. Perez. Gained experience with robotics, particularly the mathematical analysis of the positions and velocities of linkages.
- Co-author of paper "Synthesis of Spatial 3R Chains with Configuration-Specific Twist System" for IDETC/CIE 2017.



Summary

Bachelor of Science degree in Mechanical Engineering. Experience with research, time management, group and independent work. Proficient with Matlab and SolidWorks. Interests include robotics, manufacturing, and programming.



Personal Info

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Skills

Matlab

SolidWorks

Maple

C/C++

Java

Group Work

Time Management

Problem Solving

Technical Writing