

Brittany Stuart

Contact

E-mail: stuartb@purdue.edu
Phone: (630)-306-4887

Social

<http://brittanystuart.me>
gh: stuartb2358

Education

Purdue University

Expected Graduation: May 2016

Bachelor of Science in Mechanical Engineering

- Purdue Presidential Scholarship

Professional Experience

Sullair – Airend and Powertrain Internship

(June 2015 – August 2015)

- Designed and ran FEA on lifting framework for 24,000 lb air compressor
- Lead cross-functional team in a cost reduction analysis for portable air compressors

Sullair - Product Development Internship

(June 2014 – August 2014)

- Analyzed and designed acoustical louvers used in the reduction of ambient noise and improved compressor performance
- Used CFD techniques to validate louver performance

Hyperloop Transportation Technologies - Research

(January 2015 – Present)

- Worked with HTT to design and analyze tube structure for the Hyperloop Transportation System.

Extracurricular Experience

Purdue Electric Racing (FSAE Electric)

(September 2013 – May 2014)

- Designed diver's cell for FSAE Electric competition

Purdue Club Sport

(September 2012 – Present)

- Competed in intercollegiate tournaments with the Purdue Women's Ultimate Frisbee Team

Purdue Hussars Club

(September 2012 – May 2013)

- Floor representative for Owen Residence Hall

Introduce a Girl to Engineering Day (IGED)

(2012 – Present)

- Mentored high school women on pursuing degrees in engineering

Projects

Programming Jig for BoilerMake Hackathon Badges

(October 2014)

- Designed and fabricated bed-of-nails bracket using rapid prototyping techniques

Multiple Arcade Machine Emulator

(July 2013 – Present)

- Designed and fabricated a MAME cabinet

Rapid Prototyping

(July 2013 – Present)

- Assembled and modified Printbot 3D printer

Guided User Interface

(January 2013 – May 2013)

- Worked closely with Gulfstream to make a heads up display for pilots

Pinball Machine

(June 2012 – August 2012)

- Restored a classic pinball machine

Skills

Programming Experience

- C, Python, MATLAB and LabView

Simulation Experience

- FEA, CFD and Acoustical Validation using Scan & Paint software

3D Modeling/ Computer Aided Design

- CATIA, AutoDesk Inventor, SolidWorks and U-G NX