

Brittany Stuart

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Education

Purdue University

Expected Graduation: May 2016

Bachelor of Science in Mechanical Engineering

- Purdue Presidential Scholarship

Professional Experience

Sullair - Product Development Internship

(June 2014 – August 2014)

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

Hyperloop Transportation Technologies - Research

(January 2015 – Present)

- Collaborate with startup company to design and analyze tube design for the Hyperloop

Extracurricular Experience

Purdue Electric Racing (FSAE Electric)

(September 2013 – May 2014)

- Designed diver's cell for an electric vehicle 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
- Participated in weekly meetings regarding budget management and hall social events

Board of Directors for South Outreach

(September 2011 – May 2013)

- Project leader for local community service club
- Supervised multiple teams to raise awareness of local poverty issues

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)

- Collaborated with Gulfstream on a project design of 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