Brittany Stuart

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Education

Purdue University   Expected Graduation: May 2016
Bachelor of Science in Mechanical Engineering
- GPA: 2.61 / 4.00
- Purdue Presidential Academic Achievement 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

Extracurricular Experience

Purdue Electric Racing (FSAE Electric)   (September 2012 – Present)
- Designed diver's cell for 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 the Owen Residence Hall
- Coordinated 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 a Printrbot 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 Experiece
- FEA, CFD and Acoustical Validation using Scan & Paint software

3D Modeling/ Computer Aided Design
- CATIA, AutoDesk Inventor, SolidWorks and U-G NX