

Laura Limon

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OBJECTIVE

I am a senior mechanical engineering major who is eager to start their professional career with interests in design, manufacturing, and fabrication.

EDUCATION

Carnegie Mellon University, Pittsburgh, PA
Bachelor of Science in Mechanical Engineering, May 2016
College of Engineering Dean's List, Spring 2013
Cumulative GPA: 3.24

Lebanon High School, Lebanon, NH
Graduated in June 2012
Member of National Honor Society

RELEVANT EXPERIENCE

Fox IV Technologies Inc. Engineering Intern, Export PA, Summer 2015

- Assigned with designing the upgraded version of an automated label printer/applicator
 - Developed solutions to create a functional machine which met desired changes
 - Designed new custom parts in CAD and fabricated them using a machine shop/3D printer
 - Worked with a team to build a completed prototype
 - Tested prototype to ensure functionality and consistency
 - Established a final bill of materials
- Extensive use of SolidWorks for the purposes of structural analysis, documentation, and design
- Expected to independently work on and complete project assignments with little supervision

SKILLS

- Software: Microsoft Office, SolidWorks, Autodesk Inventor, Creo Pro/ E, ANSYS
- Experience programming in: Python, MATLAB, Visual Basic
- Machine Shop Tools: CNCs, mills, lathes, band saws, drill presses

RELATED ACTIVITIES AND PROJECTS

Point of Sale Program, Spring 2014

- Programmed a point of sale application in python that could be used in restaurants
- Capable of storing and tracking employee data, inventory, and total sales
- Tabulated a final bill for customers and determined employee hours/pay

Crane Project, Spring 2014

- Designed and built an aluminum crane powered by a servo motor with the objective to lift a weight a specific distance
- A structural analysis was executed to create a working design
- An obstacle was to be avoided and height and weight restrictions were to be met

Desktop CNC Mill Project, Spring 2015

- Constructed a desktop sized, 3 axis CNC mill which would be used to create models of 3D scanned artifacts
- Involved wiring stepper motors, assembling a belt and pulley system, and designing some custom parts
- Edited and reconstructed 3D scanned files using a mesh editing software called MeshLab
- Utilized software called MeshCAM to create G-Code, which gave exposure to CAM basics

Additive Manufacturing Project, Spring 2015

- Tasked with developing and selling a product made with an FDM 3D printer
- Invented a belt clip that could be used by rock climbers to carry climbing chalk and shoes and created several designs
 - Product still consistently generates activity on thingiverse.com
- Used Simulation Xpress to analyze structural weaknesses to improve the design
- Conducted a market analysis to determine product success

LEADERSHIP

Director of Sisterhood for Alpha Phi International Women's Fraternity

Responsible for serving in the Programming and Education Department, serving on the Program Council, single handedly planning and budgeting events for a group of 100 women, and developing creative programs that increase moral and encourage member interaction.

ADDITIONAL EXPERIENCE

Carnegie Mellon University's Media Technology Services: Technician, Fall 2013

- Responsible for repairing, troubleshooting, and maintaining audio-visual equipment, completing inspections of appliances and installing/removing equipment such as DVD players, projectors, computers, and microphones.

Carnegie Mellon University's Unified Communications Services: Student Assistant, Fall 2014

- Assisting with the new phone deployment project on campus. Tasks include, data entry, assembling phones, connecting new phone lines, picking up equipment, removing cross connect wires, and maintaining stock and inventory.

Frequent Volunteering

- Beverley's Birthdays, Tutor at the Academic Tutorial Center at Lebanon High School