

Annie Cardinal

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As a mechanical engineer with a strong interest in product and user experience design, I am looking for a full-time position that will leverage my skills in project leadership, creative problem solving, design thinking, social experience design, and product design engineering.

Education

Princeton University | Princeton, NJ

June 2015

Major: BSE Mechanical Engineering; *Certificate:* Robotics and Intelligent Systems

Applicable Coursework: Design Thinking; Entrepreneurial Leadership; Heat Transfer; Matrix Structural Analysis and Finite Element Methods; Energy Conversion; Algorithms and Data Structures; Automatic Control Systems; Materials; Differential Equations; Solid Mechanics; Dynamics; Thermodynamics; Fluids

Professional Experience

Mechanical Engineer | Produktworks Design, LLC.

October 2015 – Present

Design and 3D model products in SolidWorks, prototype using rapid prototyping methods, source materials, and discuss projects with clients.

Product Design Engineering Contractor | Creative Edge Products, LLC

July 2015 – October 2015

3D modeling, design, and prototyping of products. Managed projects from start to finish.

Drone Navigational Programming Internship | Liquid Robotics, Inc.

June 2014 – August 2014

Worked for Dr. James Gosling adding autonomous navigation functionality to WaveGlider drones in Java.

Hardware Product Design Internship | QuakeFinder, LLC.

June 2013 – August 2013

Developed a robust standalone seismic data recording station for implementation in classrooms.

Designed enclosure layout and power system and wrote user manual with assembly instructions.

User Experience and Web Design Internship | Yiftee, Inc.

June 2012 – July 2012

Designed and coded gift email template, merchant dashboard, and merchant recommendation engine.

Projects Princeton University

Invention of a Two Degree of Freedom Mechanism

September 2014 – May 2015

Managed team of 4 students for senior independent work. Designed and manufactured mechanism.

Project Co-Lead for Search and Rescue Robot

February 2014 – May 2014

Developed a winning search and rescue robot capable of wall-climbing and autonomous navigation.

Managed the coding and electronics components and oversaw testing and reliability design.

Project Lead for Design of a Box-lift Crane

October 2013

Simulated, designed, and manufactured a sub-three pound aluminum box-lift crane capable of lifting 850 pounds (500 pounds required). Won best design award out of 10 groups.

Applicable Skills

Engineering: SolidWorks, PTC Creo (Pro/E), machine shop, rapid prototyping, soldering and circuitry

Project Leadership: Management, timeline scheduling, communication, budgeting, task delegation

Programming: Java, MATLAB, Python, Arduino, HTML, CSS, GitHub, ArcGIS

Technical Skills: Adobe Creative Suite, Microsoft Office, WordPress, web development, UI/UX design, Windows and Macintosh OSes, Canon and Nikon cameras, tech support

Additional Skills: Spanish (proficient), technical writing and editing, written correspondence, presenting

Activities & Interests

A Cappella singing, classic rock music, model making, travel, photography, food, F1 racing, Sci-Fi

Updated October 11, 2015.