

# 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

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**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

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**Mechanical Engineer / Project Lead | Produktworks Design, LLC.** October 2015 – Present

Design and 3D model products in SolidWorks, prototype using rapid prototyping methods, source materials and vendors, and manage projects for clients. Meet with potential clients, write proposals for projects, and guide employees in best practices and project management.

**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

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**Invention of a Two Degree of Freedom Mechanism** September 2014 – May 2015

Managed a 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

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**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, KeyShot, 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

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Travel blogging, singing, classic rock music, bouldering, photography, food, F1 racing, Sci-Fi, dinosaurs

Updated August 18, 2018.