

# Annie Cardinal

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As a mechanical engineer and project manager with design studio leadership and company management experience, I am looking for opportunities that will leverage my skills in team management, physical product development, production sourcing, and creative problem solving.

## Education

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### Princeton University | Princeton, NJ

June 2015

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

## Professional Experience

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### Studio Lead/Co-Owner | Produktworks Design, LLC.

October 2019 – June 2021

Managed day-to-day operations of design firm and guided company direction. Doubled size of firm, trained engineers, managed client interactions and project schedules, while also being a full-time mechanical engineer. Business development and proposal writing. Experience production sourcing domestically and overseas and taking physical products from concept to mass production (10K+ units).

### Mechanical Engineer / Project Lead | Produktworks Design, LLC.

October 2015 – October 2019

Designed and 3D modeled products in SolidWorks, prototyped using rapid prototyping methods, sourced materials and vendors, and managed projects for clients. Completed design for manufacturability with drawings, including injection molded plastic, sheet metal, and machined metal. Inventor on 5 US patents.

### 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.

## 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.

## Applicable Skills

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**Engineering:** SolidWorks, design of plastics, sheet metal, machined metal, design for manufacturability, integrating PCBs and electronics, production sourcing, rapid prototyping. Inventor on 5 US patents.

**Management:** Project and studio management, timeline scheduling, client interactions and presentations, communication, budgeting and purchasing, task delegation and design reviews

**Technical Skills:** Adobe Creative Suite, Microsoft Office, KeyShot, WordPress, Windows

**Programming:** Experience with Java, MATLAB, Arduino, HTML, CSS, GitHub

**Additional Skills:** Spanish (proficient), technical writing, written correspondence, photography

## Activities & Interests

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Classic rock music, singing, travel blogging, photography, cooking, Formula 1, dinosaurs, exploring the desert, zero waste and reduced environmental impact