

Zachary J. Bennett

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Objective

I seek a position within the robotics industry under the engineering discipline.

Education

Grad	Harvard University- Extension School - Grad classes in computer science through Harvard Extension School - 4.0 GPA	Present
B.S.	Colorado State University- Fort Collins, CO - College of Engineering - Mechanical Engineering - Fundamentals of Engineering (FE) Exam- Passed - 3.4 GPA	May 2010
High School	Park City High School- Park City, UT - Honors Graduate - 3.7 GPA	May 2006

Professional Qualifications

- Proven project and situational leadership as demonstrated through successful completion of senior design
- Motivated, hardworking, and dedicated individual eager to apply engineering concepts
- Personal commitment to sound engineering design principles and engineering ethics
- Unique combination of leadership, technical competence and communications skills

Projects- see www.zachbennett.com for more information

Robotic Preheat Torch- Wolf Robotics

Inventor on the Wolf Robotics Patent for a Robotic Preheat Torch. A propylene torch that is used to heat parts before welding. A temperature sensor accommodates the torch to ensure the correct temperature is met. The preheat torch can be picked up and dropped off autonomously. 2011

Hydraulic Hybrid- Senior Design

Project Design: a retrofit kit designed for automotive truck conversion to efficient hydraulic hybrid power. The project involved many aspects of automotive engineering. Specific tasks involved development of prints and system design, dynamic, solid and hydraulic modeling and unit assemblage. Developed control systems in Simulink. Fuel efficiency and quality control included: consumption profiles, debugging, and rigorous testing protocols. 2009-2010

Variable Pitch Wind Turbine

Developed a scale wind turbine that dynamically updates RPM's and automatically changes the pitch angle of the blades accordingly. If RPM's are too great, internal feedback will initiate braking to stop the turbine. Sensory information including power output is sent to an external LCD display. 2009

Line Flyer Competition

Developed and assembled a carriage to travel across a 1/4 inch wire. Mechanism traveled 6.5 ft. in less than a second in accordance with project protocols and restrictions. 2007



Work Experience

•Pallet Placer LLC-Fort Collins, CO

Co-Founder, Chief Technical Officer (CTO), and Web Developer

PalletPlacer.com is a freight shipping website intended to ease the booking process. Pallet Placer provides a visual, easy to use truck organization software that can help to prevent shipping errors, assist in choosing correct truck types, and show a visual representation of the truck layout. As CTO responsibilities include all programming and website development.

November 2011-Present

•Wolf Robotics- Fort Collins, CO

Project Engineer/Software Engineer

Designed robot assemblies and programed accurate actions such as welding, grinding, cutting in addition to material handling. Oversaw installation, integration, and implementation of automated robotic systems. Held accountable for quality and on time development, while demonstrated the ability to work independently.

October 2009-Present

•Terra Nova, LLC. - Park City, UT

Engineering Internship

Designed an Excel database and completed initial feasibility studies for Terra Nova's *Zip Rider*. Compiled reports and collaborated with companies interested in *Zip Rider* installation. Utilized Pro-Engineer to design custom *Zip Rider* components. Oversaw installation of the *Zip Rider* at Bromley Mountain, Peru, VT.

Summer 2009

•The New West Country Store- Kamas, UT

Network Administrator

Responsibilities included website design and development, network security and backup and software management. Please see www.newwestcountrystore.com.

Summer 2008

Skills

Proficient in the Following Applications

- Solid Works
- Pro-Engineer
- Matlab and Simulink
- MathCAD
- Microsoft Office (Word, Excel, PowerPoint, Visio, Project)
- Apple iWork (Pages, Numbers, Keynote)
- Robot Studio
- Apple Xcode

Proficient in the Following Programming Languages

- C
- Java
- Objective C
- JavaScript, JQuery, html, CSS, SQL, PHP
- ABB Rapid Code (similar to C)

Certificates

- Wolf Robotics Certificate of Employment Recognition Patent Application for a Robotic Preheat Torch
- Passed the Fundamentals of Engineering (FE) Exam
- Introduction to Gas Metal Arc Welding