

# MATTHEW HAINSWORTH

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*Talented bioengineering graduate student with proven research and development skills such as design, testing, and prototyping searching for a long term flexible position within an engineering firm.*

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## SUMMARY OF QUALIFICATIONS

- Currently enrolled in Graduate degree program at the University of Colorado at Denver in the department of bioengineering.
- Strong leadership and support skills with extraordinary teamwork capabilities, including communication and collaboration.
- Proven track record of exceptional work performance.

## SKILLS

- SolidWorks
  - ANSYS
  - Matlab
  - Statistical Analysis
  - Microsoft Office
  - Organizational skills
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## EDUCATION

**Masters of Science, Biongeering** (2009 - Present) 3.70 GPA  
UNIVERSITY OF COLORADO DENVER – Denver, Colorado

**Bachelor of Science, Mechanical Engineering** (2005 - 2008) 2.90 GPA  
UNIVERSITY OF COLORADO AT BOULDER – Boulder, Colorado

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## CAREER EXPERIENCE

CONMED ELECTROSURGERY, Centennial, Colorado, June 2009 – June 2010

### **Manufacturing Engineering Intern**

Worked closely with Quality, Production, and Design Departments to test and evaluate production capabilities of unreleased product. Completed statistical analysis on several manufacturing functions including production fixtures and measurement systems.

- Spearheaded the statistical analysis of manufacturing processes and increased the use of mathematical models to evaluate data, including Gauge R&R.
- Developed and conducted several Design of Experiments (DOE) to characterize and understand failure modes of product.
- Played a key role in the engineering build of newest product. Conducted all pre-measurements and data retention.
- Wrote and evaluated a majority of validation and verification documents as well as manufacturing procedures for and unreleased product.

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**CAREER EXPERIENCE CONTINUED**

KIEWIT PACIFIC CO, Cantil, California, May 2008 – November 2008  
(Left to pursue graduate degree)

**Engineer**

Directed Survey Department of \$150 million wind farm with 80 turbines, construction near the Mojave Desert. Worked directly under Assistant Project Engineer supporting in various engineering tasks such as seeding subcontracting, pipe procurement, and quantity management.

- Discovered shipping error by creating an innovative solution that resulted in savings of about \$7000.
- Effectively managed three member survey crew on \$150 million wind farm, including daily progress reports, scheduling, and equipment procurement.
- Implimented and maintained a system to oversee approximately one hundred computer models and as-built topographic data files.
- Furthered advancement of tracking system for all quantities used in construction which resulted in remarked improvements in accuracy.

CARIDIAN BCT, Golden, Colorado, August 2007 – May 2008

**Student Engineer**

Worked as an integral member on a team of student engineers on the development, testing, and design of additions to a blood centrifuge. Design improvements included an iterative approach with an input, output, and verification decision matrix for design selection. Worked closely with in house machine shop to gain better understanding of physical constraints.

*Key Achievements:*

- As a result, CaridianBCT was able to produce a patentable design solution.
- Due to performance, our group was awarded \$1000 bonus, the highest allowable.
- Participated in several key presentations to on staff engineers, including design validation presentations.

BOULDER DUSHANBE TEAHOUSE, Boulder, Colorado, August 2005 – April 2008

**Server**

Began working as a bus boy, then was promoted to expediter, then to server, and finally to tea server. Was consistently one of the highest selling servers, with an excellent track record of attendance.

*Key Achievement:*

- Financed undergraduate education by working part-time year round.

**ADDITIONAL INFORMATION**

- Certified Associate in Project Management (CAPM), Project Management Institute, September 2008
- Engineer in Training (EIT/FE), NCEES, February 2008
- Member, American Society of Mechanical Engineers (ASME), June 2007
- Member, Engineers Without Borders (EWB), February 2009