

Summary

- Team-oriented and motivated Mechanical Engineer who is seeking an entry-level or internship position.
- Experience in planning and designing prototypes and mechanical products as well as basic data analysis and collection.

Education

- B.S. Mechanical Engineering**, University of Colorado (Boulder, CO) Aug 2009 - May 2014
 - **Minor:** Electrical Engineering
 - **GPA: 3.45/4.00**
- Engineering Management Certificate**, University of Colorado (Boulder, CO) Jan 2013 - Dec 2013

Work Experience

- Mechanical Lab Technician, National Institute of Standards and Technology (NIST) – Boulder, CO** Oct 2013 - Present
 - Polish and etch X52 and X70 steel CT (compact tension) specimens in preparation for fatigue testing
 - Measure and maintain records of initial CT specimen measurements and fatigue test results
 - Assist with data analysis and reduction for preparation of papers and presentations
- Assembler/Molder , ROLINC-ATR Staffing/Rimstar – Broomfield, CO** May 2012 - Aug 2012
 - Operated molds that performed reaction injection molding of 90 various bases and lids for automotive bumpers per shift
 - Assembled and packaged automotive bumpers to ship out to customers
- Lab Assistant, Institute of Arctic & Alpine Research (INSTAAR) – Boulder, CO** Dec 2010 - May 2012
 - Measured the amount of volatile organic compounds (VOCs) in 10-12 test flasks per day
 - Analyzed and processed VOC test results in Excel to determine seasonal trends for all the NOAA flask site locations

Project Experience

- Communications Director/Manufacturing Engineer - Seagate: Automated HDD Loader/Tester** Aug 2013 - May 2014
 - Senior Design Project for B.S.
 - Machined and designed a proof-of-concept system that loads/unloads hard disk drives from industrial-sized test racks
 - Provided internal and external communication to the project team, the customer, and all other stakeholders
 - Compiled all completed CAD drawings and files of custom components in order to maintain manufacturing documentation
 - Compiled and maintained an accurate bill of materials to ensure project is within allowable budget
- Manufacturing Engineer - Component Design: Adaptive Tricycle** Jan 2012 - May 2012
 - Provided mechanical design for an adapted tricycle for a 3-year old client who possesses a physical disability
 - Machined a modified handlebar and bike seat in order to accommodate client's needs
 - Utilized mechanical design concepts/equations in MATLAB to determine points of failure within the tricycle

Skills

<u>CAD</u>	<u>Software</u>	<u>Equipment</u>	<u>Selected Coursework</u>
-Solidworks	-Engineering Equation Solver	-Electronic: oscilloscopes, multi-	-Manufacturing Processes
-Solidworks Flow Simulation (CFD)	-MATLAB	meters, function generators,	-Component Design
-Autodesk Inventor	-LTSpice	soldering iron, Arduino	-Project Management
	-LabVIEW	-Mechanical: mill, lathe	-Electronic Design Lab

Volunteer

- Member - Asian Pacific Development Center – Aurora, CO** June 2007 - Aug 2009
 - Led 15+ other members in repainting several rooms for runaway women at Brandon House
 - Participated in other service activities such as Urban Peak, Pumpkinfest, & South Platte River Sweep
- Volunteer - Bolder Boulder – Boulder, CO** June 2012
 - Aided alongside 15+ members of CAPYA in distributing water to race participants

Honors/Awards

- Passed the Fundamentals of Engineering exam October 2013
- Dean’s List of the College of Engineering and Applied Science Spring 2012, 2013; Fall 2012, 2013

