

Jeremy Benson

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Summary

Recently graduated mechanical engineer with 18+ years of experience; motivated and self-starting; seeking opportunity to apply technical skills and values from diverse prior employment, leadership experience, new engineering education to meet design challenges and advance technology within engineering industry.

Education

Colorado School of Mines, Golden, CO
Mechanical Engineering

B.S. May 2017
GPA: 3.2

Motorcycle Mechanics Institute, Phoenix AZ
Certified Motorcycle Technician, Graduated January 2005

Certified Jan. 2005
GPA: 4.0

Skills & Qualifications

- Matlab, Simulink, and Simcape
- SolidWorks & AutoCAD
- Simulation, Fatigue Analysis
- ANSYS CFD Flow Simulation
- Customer Service
- MS Office (Word, PP, Excel, Visio)
- Mathcad, LabVIEW, EES, & Python
- Lathe, Mill, and CNC Machining
- Geometric Dimensioning and Tolerancing
- Technical Writing

Work Experience

Bausch and Stroebel Machine Company, Mechanical Field Service Engineer June 2018 – December 2018

- Install, commission, maintain, upgrade, or repair pharmaceutical manufacturing machines across the United States
- Troubleshoot customer problems via telephone and onsite
- Create accurate service reports documenting completed and future repairs with necessary parts
- Work in parallel with machine shop to have parts modified that will resolve customer machine problems
- Work in aseptic/ sterile conditions and complete work to industry standard safety regulations

National Renewable Energy Laboratory, Mechanical Engineer Intern May 2016 – April 2017

- Design and implementation of THIL (Thermal Hardware in the Loop) Combined Heat and Power system
- Design visual graphic display for ESIF HVAC Cooling loop monitoring energy use of the cooling system
- Design cooling system for Fuel Cell labs electrolyzer and fuel cell test stands to incorporating lab chilled water supply

Various Positions, Valet, Bellman, Security Officer May 2006 – August 2015

- Utilized skills: professionalism, customer service, security activities, report writing, problem-solving, time-management, in various positions across diverse organizations

Hyper Sports and Pacific Motorsports, Service Technician Feb 2005 - May 2006

- Troubleshoot and repair of Motorcycles, ATV's and Jet Skis including extensive overhauls and large jobs
- Address customer concerns regarding performance needs and suggest modifications accordingly

Team Project Experience

Formula Society of Automotive Engineers, Powertrain Manager Fall 2014 – Spring 2016

- Designed, machined, and manufactured a FSAE race car for international competition to meet regulation
- Ensure other club members are designing parts to specification that will work with overall design
- Collaborate with other subsystem leaders to ensure overall design will perform optimally and that solutions are both cost and time effective

Automotive Wheel and Tire Failure Test Stand Design, Technical Lead Fall 2016 – Spring 2017

- Designed and performed failure analysis of the suspension components to test automotive wheel and tires to failure
- Collaborate with team members to ensure parts work together and that proper FEA and Fatigue analysis has been performed

MEL(Multi-Disciplinary Engineering Laboratory) Spring 2015 – Spring 2016

- Develop computational and electrical setup to analyze data gathered in testing many experiments over a variety of disciplines
- Communicate findings both written and visually to demonstrate understanding