

Matthew Bunsness, EIT

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Education and Licensure

University of Colorado, Denver, CO, May 2013-December 2016

- *Bachelor of Science in Mechanical Engineering*

Engineer in Training License # 75833, December 2018

Work Experience

Production Manager and Safety Officer, mcSquares, Denver, CO, August 2019 – Present

Production Associate, mcSquares, Denver, CO, April 2019- August 2019

- Managed production of over 3 million dollars worth of inventory in 2020, powering the company to 300% growth year over year in a start up environment
- Plan and implement the daily tasks and long term goals of the production staff and empower individuals to contribute ideas and projects to improve efficiency, reliability and safety
- Hired all shop staff and evaluates current employees, providing guidance, promotion and discipline when necessary. Currently managing 11 individuals.
- Administered the creation of the mcSquares OSHA Safety program, developing the written documentation, and training all staff on safety procedures
- Instituted the company's Covid-19 response, maintaining the operation of the factory while maximizing the safety of the workplace, following all state and local regulations and ensuring employee and contractor compliance
- Evaluate inventory levels across multiple seller platforms (Amazon, Zulily, Walmart), create shipments to maintain stock, and adjust manufacturing plans to meet demand
- Coordinate in house fulfillment efforts across different storefronts (Amazon and Shopify), making sure customers get their product on time and in good condition
- Manage supply chains to ensure the shop has the raw materials to meet manufacturing schedules
- Orchestrated moving the company offices and manufacturing facilities into a new location without impacting customer satisfaction by maintaining inventory and fulfillment standards
- Outfitted our new facilities with electrical, plumbing, and new construction, working closely with contractors to complete the project in 6 months from move to completion
- Coordinate with the Director of Operations and CEO to strategize and plan for future capital expenditures and facility improvements

Research Assistant, CU Denver, Dr. Raphael Sanchez, August-December 2016

- Redesigned and manufactured a new 4 degree of freedom test stand for a pure bending moment experiment to be performed to evaluate material properties of sheet metal

Skills and Leadership

Programs and Programming Languages

- Well versed in Solidworks CAD, Siemens NX CAD, MatLab, Microsoft Office Suite
- Proficient in AutoCAD, EdgeCAM, Labview, Simulink, Java programming

Formula SAE (FSAE) and Baja SAE, CU Denver, September 2013-April 2015,

- Established the first FSAE team at CU Denver with 14 other students to compete at the Lincoln, Nebraska event in 2015, where the team placed 42nd overall
- Designed and manufactured a space frame chassis utilizing stiffness calculations based on quasi-static model of the car and Finite Element analysis using both beam and tetrahedral elements
- Developed and molded a carbon fiber racing seat that integrated seamlessly into the chassis and comfortably fit a 5th percentile female to a 95th percentile male
- Vetted all of the rules and regulations for the frame and the cockpit area
- Lead a small team to design and mould a carbon fiber seat for the off-road car