Sam Christensen

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Skills

Applications: CATIA, SOLIDWORKS, AutoCAD, Inventor, Confluence, JIRA, MATLAB

Fabrication: Additive Layer Manufacturing, Lathe, Mill, MIG, TIG, Shop Equipment, Hand and Power Tools Other: 2018 Infiniti Engineering Academy USA Finalist, Bell Helicopter Composite Production Training,

Allen Bradley RS Logix 5000 PLC Troubleshooting and Programming

Work Experience

Lyons Motor Car - Freelance Mechanical Engineer - New York, New York

Sep 2020 - Present

- Produced suspension and chassis components in SOLIDWORKS for production of Streamliner Super Sport
- Evaluated designs for interference, tolerance, and improved manufacturability
- Effectively corresponded remotely as part of a team of designers to meet deadlines while ensuring design quality

Tesla – Production Control Equipment Engineering Intern – Fremont, California

Jan 2019 - Jan 2020

- Provided mechanical design support to controls engineers to develop enhancements of model 3 instrument panel receiving conveyor leading to an 85% decrease in machine downtime
- Project management and design of ergonomic lift assist using rapid prototyping for handling of brake rotors by associates improving the safety of the process without decreasing cycle time
- Designed and coordinated the fabrication of dollies as part of a multi-departmental team for the addition of new vehicle parts to be installed on the model 3
- Utilized top-down and parametric design to create 3D models and technical drawings in CATIA to industry drafting standards using GD&T practices
- Drafted technical work instructions to aid in the installation and maintenance of production critical equipment to reduce the mean time to repair

Texas Tech University - Machine Shop Student Assistant - Lubbock, Texas

Jun 2018 - Dec 2018

- Performed precision machine work on mills and lathes for research laboratories within a 0.002" tolerance
- Taught students to safely utilize shop equipment for academic projects including MIG and TIG welders, manual mills and lathes, and shop equipment

Classic Mazda of Denton - Master Automotive Repair Technician - Denton, Texas

Nov 2010 - May 2014

- Achieved ASE Master Technician and Mazda Master Technician status
- Collaborated with engineers from the Mazda headquarters to assist with new product failure analyses
- Performed quality repair work in accordance to factory standards using in-depth product knowledge
- Effectively explained technical diagnostics and repairs to customers without automotive repair knowledge

Additional Experience

TTU Formula SAE - President - Texas Tech University Lubbock, Texas

Sep 2017 - Aug 2019

- Set design goals, timelines, and team objectives which led to an eight-place improvement in standing
- Managed and mentored a team of six design leads and fifty members
- Individually handled all administrational tasks including leading meetings, making purchases, and acting as the point of contact for university faculty and sponsors
- Obtained sponsorships worth \$80,000+ to fund fabrication of the race car
- Organized outreach and sponsorship events to foster positive relationships with the community

TTU Formula SAE – Aerodynamics Design Lead – Texas Tech University Lubbock, Texas

Sep 2016 - Aug 2018

- Produced aerodynamic design improvements and implemented features resulting in 186-pound downforce increase to improve driver confidence of vehicle handling characteristics
- Designed and analyzed body panels, air foils, and supporting composite structures in SOLIDWORKS with integrated Computational Fluid Dynamics (CFD) software
- Developed and fabricated male and female molds and tooling for composite part fabrication to produce aerodynamic components on site at Bell Helicopter

Education

Texas Tech University – *Lubbock, Texas*

Aug 2020 - Present

Master of Science in Manufacturing Engineering

Texas Tech University – Lubbock, Texas

Sep 2013 - May 2020

Bachelor of Science in Mechanical Engineering, Minor in Mathematics

GPA 3.6

Lincoln College of Technology – *Grand Prairie, Texas*

Aug 2009 - Sep 2010

Automotive Technology Certificate