

Noah Truong

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Education

University of California, Los Angeles

Bachelor of Science, Mechanical Engineering | Tech Breadth: Computer Science

Sep 2019 – Jun 2023 (Expected)

Skills and Interests

Skills: Siemens NX, Solidworks, Autodesk Inventor, Autodesk Fusion 360, Additive Manufacturing, DFM, DFA, Simcenter Amesim, MATLAB, Java, C++, Python, Arduino, Photoshop, Illustrator, Confluence, JIRA, Fabrication, Cycle Time Analysis

Interests: Cars, Gaming, Making, 3D Printers, Skiing, Golfing

Work Experience

Tesla Inc.

Manufacturing Automation Development Engineering Intern

Sep 2022 – Present

- Working on battery manufacturing automation projects by designing production critical tooling improvements; creating relevant drawing packages while keeping DFM in mind to keep costs low

Rivian Automotive

Battery Pack Manufacturing Engineering Intern

Jun 2022 – Sep 2022

- Performed extremely detailed cycle time analysis of three robot cells and numerous manual stations; developed strategies to improve throughput by 208% to meet long term targets and worked with integrator to implement continuous improvements as well as design and simulate longer term solutions
- Produced Job Element Sheets to quickly train new team members on manual operations in their stations
- Sole production support from the Manufacturing Engineering organization during night shift ramp; helped increase shift production by ~60% over a two-week period
- Reacted quickly to restore first pass leak test yield rate following an unexpected change in revision for battery pack components by modifying RTV dispense path with support from robotics and controls teams
- Implemented poka-yoke in manual stations through Atlas Copco torque tool implementation and collaboration with cross-functional teams to include proper permissives in station sequence
- Tested and documented issues with HMI functions and provided feedback to controls team, resulting in availability improvements during rework reintroductions

Northrop Grumman

Fuel/Environmental Control System (ECS) Intern

Jun 2021 – Aug 2021

- Created and validated Simcenter Amesim dynamic model of the ECS with over 30 heat exchangers, flow restrictors, and pumps, for replacement of the legacy steady-state model
- Developed MATLAB plotting tools for fuel system troubleshooting, allowing engineer to plot multiple fuel subsystem parameters for any of the 10,000+ flights in less than five seconds
- Traced over 100 requirements to company documents and military standards for a component replacement proposal

Landing Gear and Brakes (LDG) Intern

Jun 2020 – Sep 2020

- Piloted knowledge sharing database of acceptance test procedures using Confluence
- Improved MATLAB tools for plotting Global Hawk LDG data; reduced time for plotting flight history by 50%

Fab Lab Assistant

Feb 2019 – Aug 2019

- Extended a Lulzbot 3D printer to print objects as tall as one meter
- Helped to plan and run company's first UAV Academy, taught UAV building to twelve Japanese and American students

Incept 3D

Intern

Jun 2018 – Aug 2018

- Assembled, repaired, upgraded, and deconstructed industrial and hobbyist 3D printers

Activities

Bruin Racing Formula SAE

Managing Director

Jun 2022 – Present

- Leading development of committees aimed at improving club retention, social media presence, diversity, and culture
- Working with directors to establish foundation for team success by fundraising, project management, and recruiting

Drivetrain Senior Lead

Jun 2021 – Jun 2022

- Worked with the junior lead and sponsors for procurement and manufacturing of 40+ individual parts
- Led meetings and workdays with 60 new members to perform maintenance on older cars and build our 2022 car
- Spearheaded Cost Event Scenario by coordinating 9 sub teams to achieve a team-record 6th place finish in the Cost Event, contributing to a team-record 5th place overall finish

Drivetrain Junior Lead

Jun 2020 – Jun 2021

- Designed new hanging eccentric differential mounts to increase ease of use; decreased component weight by 9.4% through extensive Finite Element Analysis (FEA) and iterative design