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

- Using Solidworks to **design and draft** production critical equipment for capability and capacity upgrades
- Working with suppliers to procure high-quality, low-cost components for production line upgrades

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%
- Collaborated with integrators to implement continuous improvements and plan for long term capacity goals
- 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 subteams** 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