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

Work Experience

Tesla Inc.

Manufacturing Automation Development Engineering Intern   Sep 2022 – Dec 2022
- **Designed and drafted** sensor mounts, conveyance components, fixtures, and safety guarding in Solidworks
- Worked with multiple external machine shops to obtain best pricing for custom machined equipment
- Identified and **corrected safety issues** in over 10 manual processes through implementation of custom tool guarding
- Developed custom equipment to prevent light curtain trips using Solidworks Weldments, **increasing availability**
- Improved range of motion of torque tool mount by 3x which **improved tooling capability**, avoiding need to add additional equipment

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%
- 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**; allowed plotting of all subsystem parameters for any flight in 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 – May 2023
- Led development of four committees aimed at improving club retention, social media presence, diversity, and culture.
- Planned all logistics for FSAE competition travel; **balanced 46 itineraries** through a highly organized spreadsheet.
- Designed and wrapped car livery in just one week, ensuring sponsor satisfaction and retention.
- Drove **highest member recruitment and retention in club history.** (100+ active members through three quarters)
- Provided DFM guidance, root cause analysis support, and gave design feedback for all sub teams.

Drivetrain Lead   Jun 2020 – Jun 2022
- Worked with the junior lead and sponsors for **procurement and manufacturing** of 40+ individual parts.
- 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.

Skills and Interests

Skills: 3D CAD, DFM/DFA, Drafting, Cycle Time Analysis, MATLAB, C++, Python, Fabrication (Mill, Lathe, general shop), Additive Manufacturing

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