Noah Truong

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Skills and Interests

Skills: NX, Solidworks, Inventor, Fusion 360, Additive Manufacturing, DFM, DFA, Amesim, MATLAB, Java, C++, Python, Arduino, Photoshop, Illustrator
Interests: Cars, Gaming, Making, 3D Printers, Cycling, Rock Climbing

Work Experience

Northrop Grumman
Fuel/Environmental Control System (ECS) Intern — Jun 2021 – Aug 2021

- Created and validated Simcenter Amesim dynamic model of Enivronmental Control System (ECS) for future transient analysis and replacement of steady-state model
- Developed MATLAB plotting tools with Graphical User Interface (GUI) with capability of graphing individual parameters for analysis of Global Hawk and Triton fuel system anomalies

Landing Gear and Brakes Intern — Jun 2020 – Sep 2020

- Piloted knowledge sharing database of acceptance test procedures using Confluence
- Utilized MATLAB to create and unify tools for analyzing landing gear brake performance data
- Performed and presented in depth study on landing gear performance issues

Fab Lab Assistant — Feb 2019 – Aug 2019

- Extended a Lulzbot 3D printer to print objects as tall as one meter
- Developed workflow for conversion of 2D logo to 3D printed and laser cut challenge coins
- Helped to plan, organize, and develop curriculum for UAV Academy, focused on teaching UAV building and flying to Japanese and American students

Incept 3D
Intern — Jun 2018 – Aug 2018

- Assembled, repaired, upgraded, and deconstructed industrial and hobbyist 3D printers
- Implemented 12x faster solution for automatically rewriting EEPROM memory chips while simultaneously reducing human error

Activities

Bruin Racing Formula SAE
Drivetrain Design Lead — Jun 2021 – Present

- Working with the manufacturing lead and sponsors to ensure successful manufacturing of subsystem components
- Determining needs for engineering tolerances in differential mount components
- Continuing to work with other subsystems to avoid interferences in full car integration

Drivetrain Manufacturing Lead — Jun 2020 – Jun 2021

- Designed new hanging eccentric diff mounts to increase ease of use, decreased weight by 9%
- Utilized Finite Element Analysis (FEA) to help reduce component weight while maintaining strength in differential mounts, sprocket adapter, and sprockets
- Led team of four to design and integrate other subsystems components into full car assembly

Sundevil Robotics
President and Team Captain — May 2018 – May 2019

- Led 20-person team to be ranked 9th in notoriously competitive San Diego Region in First Tech Challenge
- Created complete CAD assemblies of robots totaling 150+ parts

Education

University of California, Los Angeles
Bachelor of Science, Mechanical Engineering — Sep 2019 – Present

- Expected graduation June 2023
- Nordson BUILDS Scholar, Dean's Honors List