

Noah Truong

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Rising third year mechanical engineering student at UCLA that is deeply interested in STEAM based activities. Curious personality with a drive and knack for problem solving. Very comfortable with team-based projects and leadership roles.

Skills and Interests

Skills: NX, Solidworks, Inventor, Fusion 360, Amesim, Additive Manufacturing, DFM, DFA, Java, C++, MATLAB, Python, Arduino, Robotics, Excel, PowerPoint, Photoshop, Illustrator

Interests: Cars, Gaming, 3D Printers, Arduino, Cycling, Rock Climbing

Work Experience

Fuel/Environmental Control System (ECS) Intern | Northrop Grumman | 6/2021 – Present

- Created Simcenter Amesim dynamic model of Environmental Control System (ECS) for component-by-component analysis to replace a steady-state model
- Developed MATLAB tools to support investigations of Global Hawk and Triton flight anomalies

Landing Gear and Brakes Intern | Northrop Grumman | 6/2020 – 9/2020

- Piloted knowledge sharing database of acceptance test procedures using Confluence
- Utilized MATLAB to create and unify tools for analyzing data
- Inventory tracking of crucial parts sent to subcontractor to be upgraded

Fab Lab Assistant | Northrop Grumman | 2/2019 – 8/2019

- 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

Intern | Incept 3D | 6/2018 – 8/2018

- 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
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Activities

Drivetrain Design Lead | Bruin Formula Racing | 6/2021 – Present

- Working with the manufacturing lead to ensure successful manufacturing of the drivetrain subsystem
- Continuing to work with other subsystems to avoid interferences in integration

Drivetrain Manufacturing Lead | Bruin Formula Racing | 6/2020 – Present

- Designed new eccentric diff mounts, increased ease of use, and 9% lighter due to extensive FEA analysis
- Led integration of other drivetrain components into full car CAD

Drivetrain Subsystem Member | Bruin Formula Racing | 9/2019 – 6/2020

- Hands on experience machining jig parts and performing maintenance on Formula SAE (FSAE) car

President and Team Captain | Sundevil Robotics | 5/2018 – 5/2019

- 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
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Education

BS, Mechanical Engineering | University of California, Los Angeles | 9/2019 – Present

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