

# Noah Truong

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## 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

## 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

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

## Work Experience

### 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 individual subsystem requirements to company documents and military standards for a subsystem component replacement proposal

Landing Gear and Brakes Intern

Jun 2020 – Sep 2020

- Piloted knowledge sharing database of acceptance test procedures using Confluence
- Improved MATLAB tools for plotting landing gear brake performance data; allowed for plotting entire flight history of Global Hawk fleet in approximately 15 minutes
- 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
- Helped to plan, organize, and develop curriculum for UAV Academy, focused on teaching UAV building and flying to twelve 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 Senior Lead

Jun 2021 – Present

- Working with the junior lead and sponsors for procurement and manufacturing of 40+ parts
- Leading meetings and workdays with 60 new members to perform maintenance on older cars and work towards our 2022 car

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
- Managed team of 4 to design other components for Drivetrain subsystem resulting in 11.7% weight reduction

### Sundevil Robotics

President and Team Captain

May 2018 – May 2019

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