

# 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.

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## Skills and Interests

**Skills:** NX, Solidworks Inventor, Fusion 360, Amesim, 3D Printing, Java, C++, MATLAB, Python, Arduino, Robotics, Excel, PowerPoint, Photoshop, Illustrator

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

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## Work Experience

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

- Creating Amesim dynamic model of Fuel and ECS system for component-by-component analysis to replace an outdated steady-state model
- Modernized legacy Landing Gear and Brakes MATLAB plotting tool to be used by the Fuel/ECS group

### 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 FSAE car

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

- 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
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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