

# THOMAS SLAGLE

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Active Top Secret Security Clearance

## Education:

University of California, Irvine (UCI)

Bachelor of Science in Aerospace Engineering

Expected: June 2021

GPA: 3.62/4.00

## Experience:

Experimental Testing Facility Intern

Northrop Grumman Corporation

June 2020 - Present

Redondo Beach, CA

- Assisted with Low Thrust Vacuum Testing Facility rebuild process
- Cleaned and packaged items to class S specs in a class 10,000 cleanroom
- Collected data and troubleshoot accelerated 10 year lifecycle testing of a solar cell under UV light in simulated deep space conditions

Physical & Dimensional Metrology Intern

Northrop Grumman Corporation

June 2019 - March 2020

Redondo Beach, CA

- Utilized Microsoft Excel to confirm calibration traceability, and calculate measurement uncertainty
- Rewrote calibration procedures and reformatted outdated documentation, using Enovia PLM Software
- Used NX to make part and drawing files for a new torque transducer calibration system
- Assisted with on-site calibrations of equipment and filed Equipment Performance Reports for Out-of-Tolerance equipment

Student Staff

UCI Office of Access and Inclusion

May 2018 - June 2019

Irvine, CA

- Assisted students to design and fabricate projects related to the Internet-of-Things (IOT)
- Taught students essential engineering principles such as CAD design, introductory mechanics, and Python Programming

## Projects:

Undergraduate Researcher

JMS Research Group, UCI Dep. of Materials Science

Nov 2018 - Present

Irvine, CA

- Performed sample preparation procedures (cutting, mounting, polishing/grinding, and etching) of parts of interest, utilized a Scanning Electron Microscope (SEM) for data collection
- Results concerning improving process parameters and microstructure development of 316L Stainless Steel produced via Selective Laser Melting (SLM) in preparation

Mechanical Lead Engineer

UCI Solar Car Team

April 2018 - Present

Irvine, CA

- Created and maintained standardized documentation: including part drawings, CAD revisions, trade studies, purchase orders, and engineering & administrative processes
- Oversaw and managed a team of fifteen engineering students concerned with the mechanical design of a lightweight and mechanically efficient solar vehicle

## Skills:

SolidWorks (CSWA)

Microsoft Office Suite

MATLAB

Additive Manufacturing (PLA, Metals)

FEI Magellan SEM Operation

ANSYS (Cornell-X Certified CFD & FEA)

Arduino and Raspberry Pi

Python Programming

Manual Machining (Mill & Lathe)

## Honors and Awards:

2020 Measurement Science Conference Scholar

Undergraduate Research Opportunity Program Scholar

March 2020

Academic Year 2018-2020