Thomas Slagle

Irvine, CA | 916.342.4423 | tslagle@uci.edu | in/thomasslagle99

Active Top Secret Security Clearnace

Education:

University of California, Irvine (UCI) **Expected: June 2021**
Bachelor of Science in Aerospace Engineering *GPA: 3.62/4.00*

Experience:

Experimental Testing Facility Intern **June 2020 - Present**
Northrop Grumman Corporation *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 troubleshot accelerated 10 year lifecycle testing of a solar cell under UV light in simulated deep space conditions

Physical & Dimensional Metrology Intern **June 2019 - March 2020**
Northrop Grumman Corporation *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- Rewrote calibration procedures and reformatted outdated documentation, using Enovia PLM Software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 **May 2018 - June 2019**
UCI Office of Access and Inclusion *Irvine, CA*
- Assisted students to deisgn 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 **Nov 2018 - Present**
JMS Research Group, UCI Dep. of Materials Science *Irvine, CA*
- Preformed 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 preperation

Mechanical Lead Engineer **April 2018 - Present**
UCI Solar Car Team *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)	Additive Manufacturing (PLA, Metals)	Arduino and Raspberry Pi
Microsoft Office Suite	FEI Magellan SEM Operation	Python Programming
MATLAB	ANSYS (Cornell-X Certified CFD & FEA)	Manual Machining (Mill & Lathe)

Honors and Awards:

2020 Measurement Science Conference Scholar — March 2020
Undergraduate Research Opprotunity Program Scholar — Academic Year 2018-2020