Thomas Slagle

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Education:

University of California, Irvine (UCI) **Expected: June 2021**
Bachelor of Science in Aerospace Engineering *GPA: 3.59/4.00*

Experience:

Physical & Dimensional Metrology Intern **June 2019 - Present**
Northrop Grumman Corporation *Redondo Beach, CA*

- Utilized Microsoft Excel to confirm calibration traceability, and calculate measurement uncertainty for standards.
- Rewrote calibration procedures and reformatted outdated documentation, using Enovia PLM Software
- Assisted with on-site calibrations of equipment and filed Equipment Performance Reports for Out-of-Tolerance equipment
- Used NX to make part and drawing files for various adapters to be machined for the use of new calibration systems

Student Staff **May 2018 - June 2019**
UCI Office of Access and Inclusion *Irvine, CA*

- Taught students essential engineering principles usch as SolidWorks design, introductory mechanics, and Python Programming
- Assisted students to deisgn and fabricate projects related to the Intertnet-of-Things (IOT) with Raspberry Pi implementation and additive manufacturing techniques

Projects:

Undergraduate Researcher **Nov 2018 - Present**
JMS Research Group, UCI Dep. of Materials Science *Irvine, CA*

- Performed sample preparation procedures (cutting, mounting, polishing/grinding, and etching) of 316L Stainless Steel parts made using Selective Laser Melting (SLM), utilized a Scanning Electron Microscope (SEM) for data collection
- Utilized ImageJ and Microsoft Excel to analyze SEM images for average grain size and correlate this to cooling rates
- In the process of writing a research paper to be submitted for publishing on the results from the Study

Mechanical lead Engineer **April 2018 - Present**
UCI Solar Car Team *Irvine, CA*

- Oversee and manage a team of fifteen engineering students
- Organized, provided oversight, and participated in all in-house built-to-spec manufacturing endevours
- Create and maintain standardized documentation: including part drawings, CAD revisions, and purchase orders
- Finalized suspension sub-assembly and upright deisng by conducting Finite Element Analysis (FEA) for topology optimization

Skills:

SolidWorks (CSWA) Additive Manufacturing (PLA, Stainless Steel) Arduino and Raspberry Pi
Microsoft Office Suite LEXI 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 2019-2020
Undergraduate Research Opprotunity Program Scholar — Academic Year 2018-2019