

ANTHONY DRABECK

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WORK EXPERIENCE

UC Irvine – Engineering Undergraduate Teaching Assistant **September 2019 – Present**

- Mentor students in a class which involves drone design and fabrication
- Teaches fundamental SolidWorks techniques and fabrication methods in machine shop

Saratech – Engineering Intern **June 2019 – September 2019**

- Created standard parts library in Siemens NX and TeamCenter for Moog Aerospace for use in their models
- Devised and executed methods for automation of part creation with Visual Basic code in Excel and NX
- Trained in product lifecycle management (PLM) and general engineering design processes and procedures

PROJECTS

UC Irvine Bike Builders – Founder and President **September 2019 – Present**

- Currently organizing and leading a 20 member team to design and fabricate bicycle frames
- Practicing TIG welding, brazing, and machining techniques to prepare for our first build
- Currently designing and machining a modular jig to hold frame tubes while welding

UC Irvine Cube Satellite Team (2020 Launch) – Thermal Management Lead **January 2019 – Present**

- Developed and executed method for thermal management by fabricating battery heating element
- SolidWorks, 3D printing, and Arduino C programming

Machinist’s Hammer **May 2019**

- Trained in manual lathe, mill, and other traditional machine shop tools
- Created multiple brass and aluminum hammers that featured knurled and threaded handles

Full Suspension Mountain Bike CAD Project **May 2019**

- Modeled a full suspension mountain bike using surface modeling, spline curves, and configurations
- Utilized lightweight modeling techniques and FEA simulations in SolidWorks

UC Irvine Drone Class – Team Leader **September 2018 – March 2019**

- Led drone design team using SolidWorks; successful flight capable of dropping payload autonomously
- Fabrication using 3D printing, laser cutting, drillpress, and soldering iron

SKILLS/CERTIFICATIONS

Certified Solidworks Associate **June 2019**

Lean Six Sigma Certified – White Belt **February 2019**

- Trained in processes to minimize waste, increase efficiency, and maximize profitability

Fabrication

- Manual mill, manual lathe, MIG Welding, TIG Welding, Laser cutting, and 3D printing
- Router, jigsaw, miter saw, band saw, table saw, drill press, grinding wheel, and belt sander

Software

- Siemens NX (Unigraphics), SolidWorks, Visual Basic, Java, C++, Eagle Circuit Design, Arduino, Adobe Premiere

EDUCATION

University of California – Irvine **September 2018 – June 2022**

- B.S. Mechanical Engineering, 3.5 GPA Dean’s List

Westlake High School, Thousand Oaks, CA **August 2014 – June 2018**

- 4.2 GPA, Honor Roll