

JACKSON HUYNH, EIT

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EXTRACURRICULAR EXPERIENCE

Society of Automotive Engineers (SAE) – Ergonomics Engineer *August 2018 – March 2020*

- Worked with multiple engineering teams to build a Formula-style racing vehicle
- Designed steering components including the rack and pinion using CAD/SolidWorks
- Reduced weight of vehicle mountings by 12% by using an iterative design process
- Produced detailed drawings using GD&T of components for the manufacturing process
- Assisted in creating mold of the vehicle body with the aero team

TECHNICAL PROJECTS

NASA Lunar Surface Operations – Design Lead *August 2019 – March 2020*

- Designed, manufactured, and tested a lunar sampling device using SolidWorks
- Improved device functionality by 38% by reducing actuation force using finite element analysis (FEA)
- Developed FEA under various thermal conditions on the lunar surface
- Fabricated prototypes of device using 3D printing/additive manufacturing (MakerBot Z18)
- Manufactured device by welding and machining (vertical mill, lathe, wire EDM, etc.)

Wildfire Particulate Dispersion Model *August 2019 – December 2019*

- Created MATLAB code that modeled wildfire plumes
- Modeled the plume effect with inputs such as wind velocity, wind direction, and wildfire location
- Visually showed the concentration of particulates in a contour graph

Stowable Shopping Cart *March 2017 – June 2017*

- Designed and created drawings for a portable shopping cart using SolidWorks
- Optimized the cart's ease of use and weight for those with mobility issues

WORK EXPERIENCE

Asian Youth Center – Intern *June 2016 – September 2016*

- Tutored elementary and middle school students in a classroom environment
- Performed receptionist duties (responding to phone calls, greeting visitors, etc.)

San Gabriel Library – Intern *June 2011 – September 2013*

- Collaborated with a team of volunteers on a program to promote reading to children
- Edited a film using Sony Vegas on the history of San Gabriel

EDUCATION

University of California, Riverside

August 2016 – June 2020

B.S. – Mechanical Engineering

Major GPA: 3.54 – Cumulative GPA: 3.31

Dean's Honor List (x5)

Relevant Coursework:

- Combustion and Energy Systems
- Environmental Fluid Mechanics
- Heat Transfer
- Linear Systems and Controls
- Machine Design
- Microstructural Transformations in Materials

SKILLS

- SolidWorks, CATIA V5, AutoCAD, Creo
- MATLAB, ANSYS, Python, LabVIEW
- Finite Element Analysis (FEA)
- Computational Fluid Dynamics (CFD)
- Geometric Dimensioning & Tolerancing (GD&T)
- Failure Mode & Effects Analysis (FMEA)
- Machine Shop Experience
- Rapid Prototyping/Additive Manufacturing
- Microsoft Office (Excel, Word, PowerPoint)

CERTIFICATIONS

- Engineer in Training (EIT)/FE Exam Passed
- Certified SolidWorks Associate (CSWA)