Conor Sefkow

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Third-year mechanical engineering student at UCLA seeking Summer 2022 internship

EDUCATION

University of California, Los Angeles (UCLA)

BS, Mechanical Engineering | Expected 2023

- 3.90 GPA (Dean's Honors List 7/7 quarters)
- Bruin Racing (Baja SAE)
- American Society of Mechanical Engineers (ASME)
- Over ¾ of core engineering curriculum completed:
  Traditional, micro-, and nano-scale manufacturing
  Classical & compliant design of mechanisms
  Breadth courses in materials & electrical engineering

EXPERIENCE

Bruin Racing (Baja SAE)

Composites, Panels, & Aerodynamics Lead | April 2021 - present
Composite Materials Subsystem Engineer | April 2020 - April 2021
Chassis Subteam Member | September 2019 - present

- Independently researched & applied custom composites manufacturing processes to produce carbon fiber panels
- Assisted in design (using SOLIDWORKS), manufacturing, and testing of all-terrain vehicle for national competitions
- Led aerodynamic analysis and redesign of cockpit & hood using CFD; reduced drag by 21% & increased top speed 4.5%

New Member Training Coordinator | April 2021 - present

- Organized & led SOLIDWORKS, machining, electronics, and composites training of over 150 new members

Miravel

Test Engineering Intern | January 2021 - present

- Design of experiments to investigate failure modes of autonomous horticultural installations ("wall gardens")
- Develop solutions to product weaknesses in CAD

Elegant Mind Collaboration (Neurophysics Lab)

Research Assistant | June 2020 - August 2021

- Wrote Arduino and Python programs to perform remote collection and processing of publication-quality data
- Contributed to authorship of academic paper

Hibotics Inc.

Mechanical Design Intern | August 2018 - June 2019

- Developed, fabricated, and tested ceiling-mounted robotic assistive devices using Fusion 360
- Led from-scratch redesign of chassis, reducing unit size 36%
- Initiated a rapid prototyping system via 3D printing of parts, decreasing prototype production time 10x

SKILLS

CAD (SOLIDWORKS, Fusion 360, GrabCAD, SketchUp), 3D Printing & Machining

Python, MATLAB; basic skills in C++/Arduino

Composite Materials theory & experience

HONORS & ACTIVITIES

American Society of Mechanical Engineers

Member since 2019; mentor to incoming freshmen through MentorSEAS

Combat Robotics

BattleBots-style competition;
designed 3lb robot

New York Times Crossword

Constructor since 2020, first published 10/12/2021

Recipient (2019)

San Diego Public Works / American Council of Engineering Companies Scholarship

Solar Energy Activity Laboratory

Founding member of school chapter (2017 - 2019); gave presentation at Caltech

Eagle Scout (2018)