SeanLiam McCarthy

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EDUCATION

University of California, Los Angeles (UCLA) - 3.87/4.0 GPA

Los Angeles, CA

Bachelor of Science - Mechanical Engineering

Expected Spring 2021

Technical Breadth Computer Science

Relevant courses: CAD, FEM, & GD&T (SolidWorks), Intermediate Dynamics, Controls & System Modeling, Thermodynamics & Heat Transfer, Fluid Dynamics, Statics, Abstract Data Types & Algorithms

ENGINEERING PROJECTS

The Real Deal - Robotic Poker Dealer & Player

January 2021 - Present

Project Manager

- Delegated work, created schedule to meet project deadlines over the course of 2 quarters, organized team meetings
- Designed shuffling mechanisms, created SolidWorks parts, assemblies, & motion studies for prototype

Overdrive Guitar Pedal & Looper - Independent

April 2020 – Present

- · Developed a low voltage AC circuit using basic DC offset and amplification principles to distort input waveforms
- Modeled system as low pass and band pass filters using transfer functions to find cutoff / resonant frequencies

Bruin Racing Baja SAE

September 2019 – April 2020

Chassis Sub-Team

• Modeled jigs for chassis fabrication with SolidWorks and completed basic rapid prototyping & machining

RELEVANT SKILLS

Technical Skills: SolidWorks, MATLAB, C++, Python, First Principles (Proficient), Machining, FEA (Basics)

Other: Interpersonal & Communication Skills, Teamwork, Creative, Inquisitive, Technical Documentation, MS Suite

RELEVANT EXPERIENCE

Air-Tec Carson, CA

Assistant Project Manager Intern

August 2020 - Present

- Supported a senior project manager with daily functions in HVAC controls and construction
- Assembled BOM and purchasing list to facilitate inhouse manufacturing of select construction baskets
- Worked regularly with prints & mechanical drawings to pull permits, schedule inspections, and coordinate work
- Developed, designed, and maintained a website for clients to view property blueprints using PHP and MySQL
- Prepared documentation for a distribution partnership agreement between employer and a controls vendor

Remote Procurement Intern

Los Angeles, CA June 2020 – Present

Assisted onboarding of manufacturers to serve aerospace, defense, automotive, and medical device industries

UCLA Henry Samueli School of Engineering

Los Angeles, CA

Undergraduate Mentor

SyncFab

Summer 2019, 2020

- Led a CAD workshop with 48 attendees regarding basics of part modeling and assemblies for prototyping
- Co-Hosted daily and weekly MATLAB discussion sections for groups of 22 & 23 UCLA Transfer Students
- Created administrative documentation for execution of an interdisciplinary technical project/hackathon

AWARDS INTERESTS

- UCLA Dean's List (5) awarded to students with a quarterly GPA exceeding 3.75
- John R. Wooden Scholarship Recipient (1)

- Guitar 2 years
- Soccer 17 years