SUHYUN (SEAN) OH

|1836 Kiowa Crest Drive| Diamond Bar, CA 91765 | suhyunoh95@gmail.com | (909) 973-3057 | U.S. Citizen |

EDUCATION

University of California, Los Angeles **2013– 2018**

- *B.S. in Mechanical Engineering*

WORK EXPERIENCE

UCLA Bike Shop **Jun 2016- Dec 2017**

Bike Mechanic

- Build, Repair, Sell, & Rent bicycles to the UCLA student & faculty body
- Operate a free DIY service program by teaching customers proper bike maintenance/repair techniques with proper tool selection/usage.

Autodesk, Inc. **May 2015-Sep 2017**

Machine Design Intern (2017)

- Designed an independent dual gantry, large format, FDM style 3D printer to serve as a reference machine and test platform for implementing Autodesk Netfabb's parallel control for collaborative additive manufacturing
- Researched precision machine design theory and concepts to formulate and validate design decisions
- Consulted machine shops and machine component suppliers to design for manufacturing and specify parts

Computer Aided Machining Usability & Testing Intern (2015)

- Ran benchmarks and provided feedback to optimize toolpaths, functions, and UI of CAM software such as HSM Works, Inventor HSM, and Fusion CAM
- Operated/maintained the Haas VF-2SS milling center and the Haas ST10Y mill-turn center
- Learned advanced machining theory along with industrial design & manufacturing techniques

UCLA School of Engineering **Jun 2012-Sept 2016**

Manufacturing Specialist; RoMeLa (2016)

- Designed & manufactured a custom Linear Series Elastic Actuator for compact, low power requirement, robotics applications
- Assist graduate students in various mechatronics research initiatives

Lab Research Assistant; Lynch Labs (2012-2013)

- Warrior Web Exoskeleton Suit
  - Researched fabric properties and soft robotics mechanisms
  - Conducted human gait cycle simulations on OpenSIM and tested motion sensor integration
- Cuttlefish Robot
  - Researched undulatory wing motion of marine batoid organisms for mechanical biomimicry
  - Designed mechanical system through Solidworks and fabricated a functioning prototype

UCLA Technical Management Program **Sep 2014-Sep 2015**

Lead Student Assistant

- Lead a group of students in providing customer service for industry management personnel also attending program
- Assist program director with logistics and setup of program
- Attend classes and seminars to learn about & receive certification in Technical Management

CO-CURRICULAR ACTIVITIES

Theta Tau of UCLA **Dec 2013-Present**

Upsilon Delta Chapter

Project Manager (2014-2016)

- Lead fraternity in engineering design/fabrication projects, competitions, and technical knowledge workshops
- Organize/ delegate tasks for large initiatives that require technical knowledge (I.E. Hardware Hackathon)

American Society of Mechanical Engineers **Oct 2013-Jun 2017**

UCLA Student Chapter

President (2015-2017)

- Lead fellow officers in restructuring the organization to create an engaging community that develops technical, professional, and social growth for students with mechanical engineering interests.

Secretary (2014-2015)

- Assist the President, IVP, and EVP in handling club logistics and deciding organization goals
- Facilitate/document meetings, organize database, and update bulletin board

Project Lead

- UBruined (2013-2014): 60lb class horizontal bar spinner combat robot.
- Tobefov (2014-2015): 3lb class horizontal spinner combat robot.
- DracUCLA (2015-2016): 60lb class drum spinner combat robot.
- Danger Cone (2016-2017): 60lb full body spinner combat robot

UCLA Racing **Aug 2015-Jun 2017**

Formula SAE & Baja SAE

Manufacturing & Tooling Consultant

- Consult/assist subdivisions on material selection and part fabrication for the Formula track car and Baja off-road car.
- Operate, maintain, and teach usage of manual machinery, CNC machines, and miscellaneous tooling.

IDEA Hacks: Hardware Hackathon **May 2014-Jan 2016**

Co-Founder / Administrative Lead

- Lead an executive board in organizing UCLA's first large scale, hardware focused hackathon.

PROJECTS

Project Portfolio: http://steamoh.carbonmade.com/

SKILLS

Technical:

- Advanced Woodworking/ Metalworking
- Mechanical Design
- Geometric Dimensioning & Tolerancing (GD&T)
- CAD, CAM, CNC Operation (Haas, Tormach, Omax, Mori)
- Intermediate Electronics & Circuitry
- FDM, SLA, & DLP 3D Printer Operation/ Maintenance

Computer

- Microsoft Office Suite
- AutoCAD, Autodesk Inventor, Solidworks, Fusion 360
- HSMWorks, FusionCAM
- Adobe Photoshop & Illustrator
- Certified LabVIEW Associate Developer