Kenneth Chung

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Education

University of California, Riverside   **Sep. 2019 - June 2023**

Bachelor of Science in Mechanical Engineering - GPA: 3.65   *Riverside, California*

- Certified SOLIDWORKS Associate (Additive Manufacturing & Mechanical Design)

Technical Skills

Software: SOLIDWORKS, Fusion360 CAD/CAM, AutoCAD, Cura, Adobe Photoshop
Fabrication: FDM Printing, Laser-cutting, CNC, Oscilloscope, Woodworking, Spray/Hand-Painting
Programming: MATLAB, PlatformIO, C++

Experience

Veeco Instruments Inc.   **December 2023 - Present**

Manufacturing Equipment Engineer I   *San Jose, California*

- Collaborated with manufacturing engineers to assemble, troubleshoot, and tune semiconductor processing equipment according to customer safety and precision standards such as Intel and TSMC
- Maintained detailed technical documentation such as Excel build logs communicating equipment status between shifts, SAP part shortage logs to coordinate with warehouse supply team, and APTest Manager test results for customer specification
- Tracked equipment documentation in SAP to troubleshoot issues by tracing electrical diagrams, interpreting assembly drawings, and tracing part numbers in BOMs

University of California, Riverside   **August 2022 - June 2023**

ARCS Robotics Lab Researcher   *Riverside, California*

- Designed and manufactured custom fixtures utilizing aluminum extrusions, 3D-printed carbon fiber parts, plywood parts on laser-cutter, and McMaster-Carr components for use in experimental robotics tests

Caltrans Project Field Researcher   **June 2022 - August 2022**

- Repaired large quantities of faulty sampling equipment on-field by resoldering PCB components, improving experimental sample size by at-least 20%

Projects

Low-cost shape-changing walkable surface   *January 2023 - June 2023*

- Led an independent research project designing and assembling a physical prototype consisting of extrusions, laser-cut acrylic/plywood, cable actuators, and microcontrollers to create a novel shape-changing surface
- Optimized mass-produced parts to be strong vs. material usage and weight, laser-cut with minimal waste material, easily assembled by anyone with alignment holes
- Operated a Universal CO_2 laser cutter, Ender-3 printer, and Stepcraft CNC mill for optimal surface quality and reduced post-processing
- Organized detailed project documentation such as project budget, Gantt charts, background research, CAD and simulation files, and a symposium presentation

CubeSat 2-DOF Solar Tracking Assembly   *January 2023 - June 2023*

- Lead project team of 4 and distributed tasks evenly between members based on personal strengths, career interests, and overall academic workload to ensure project completion
- Designed a compact electromechanical assembly for space conditions and assembled a working physical prototype made of 3D-printed parts and microcontroller components
- Optimized mechanical assembly based on FDM layer strength, minimal overhangs/supports, and decreasing impact of tolerance on assembly and part alignments with crush ribs and fillets