

Zhiyi Foo

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Education

University of Wisconsin-Madison

BS Mechanical Engineering

May 2021

Work Experiences

Illumina

Mechanical Engineer

Hayward, CA

November 2023 - Present

- Led the enclosure ecosystem within the sustainment team, overseeing the design, development, and maintenance of enclosures for product sustainment and new product introduction activities.
- Conducted failure and root cause analysis for electro-mechanical assemblies and implemented design modifications to enhance product reliability and performance and meet evolving customer needs.
- Identified and tested alternative components, achieving \$250k annual savings without sacrificing performance.

View, Inc.

Mechanical Engineer

Milpitas, CA

January 2022 - November 2023

- Led mechanical design and development of next-gen Smart Window Controller, overseeing project from concept to mass production within 1 year. Designed aluminum enclosure to house PCBA for optimal thermal performance and achieve water and dust ingress rating.
- Led mechanical design of new Smart Window Control Panel which helped overcome power constraints and installation time and reduced Smart Window cost per square foot by 70%.
- Designed and implemented a precision manufacturing fixture for automated and repeatable potting material dispensing, optimizing efficiency and maintaining quality in the production of 2000 units per month.
- Redesigned injection molded housings for manual window controller, achieving a 15% reduction in production costs through manufacturability analysis and CAD modeling for optimized production.

Dürr Universal

Mechanical Designer

Stoughton, WI

May 2021 - December 2021

- Led gas turbine air filtration system's waste water pipe layout design, achieving 30% space savings through innovative arrangement, optimizing cooling and filtration while preserving workspace.
- Designed new components for gas turbine noise silencers, air filter and management systems by collaborating effectively with plant staff on proposals, drawings, bill of materials, construction, and assembly.
- Operated SAP and Engineering Control Center data management software to effectively manage and control engineering documents, and process engineering work order change requests.

Attwood Corporation

Engineering Intern

Lowell, MI

September 2020 - December 2020

- Designed and developed mechanical components that improved new trolling motor design's durability.
- Designed and fabricated test fixtures and prototypes with machining tools, 3D printing for design validation.
- Wrote and maintained DFMEA, DVP&R, Test Specifications, and other engineering documents.

Technical Skills & Languages

Computer Software: SolidWorks, PTC Creo, NX, MS Office, MATLAB, Simulink, LabView, Python

Technical Skills: CNC Machining, Welding, Woodworking, Laser Cutting, Design for Manufacturability (DFM)
3D Printing, GD&T, Project Management

Languages: English, Mandarin Chinese