

Jasmine Cheong

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Phone: (415) 279-2257

Current Location: San Jose, CA

Objective

To contribute as a Mechanical Engineer with a focus on innovative product design and development, leveraging extensive experience in product design, thermal, structural, and manufacturing engineering.

Professional Profile

- Extensive knowledge and experience in mechanical and manufacturing design, across consumer products, scientific instruments, and clean energy sectors
 - Strong technical foundation in thermal systems, solid mechanics and material engineering
 - Proficient in 2D AutoCAD drawings and 3D CAD modeling using NX, Creo & SolidWorks
 - Effective communicator with proven leadership in cross-functional and vendor collaboration
 - **Key skills:** FEA, PID, Injection Molding, Sheet metal, GDT, DFA, DFM, Tolerance Analysis
 - **Soft skills:** Proactive, collaborative, communicative, project management and problem-solving driven
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Work Experience

Microsoft Mixed Reality, Mountain View, CA Mechanical Engineer contract 03/2024-04/2025

- Developed prototypes from concept to production, including 3D printing, thermal and stress experiment validation (rel tests vibration/drop etc), refine design, and failure analysis leading to design optimization
- Designed and delivered Lens foam pouch, headborne travel case, and soft goods accessories for volume production
- Applied solid mechanics and metrology to guide design-for-reliability decisions
- Delivered tolerance analysis, created GD&T-compliant 3D/2D drawings for DFM/DFA decisions
- Managed process qualification across die cutting, adhesion, CNC, molding, and Cpk quality control
- Knowledge of DFX and FEA for yield improvement; Feedbacks on product validation testing results.
- Collaborated with cross-functional teams (PM, ID, EE, ME, MfgE, REL, vendors) and system-level integration

Lawrence National Lab, Berkeley, CA Mechanical Design Engineer Contract 02/2023-03/2024

- Designed metallic fabrication and assembly drawings using GD&T for sheet metal module enclosures
- Modeled and created detailed drawings in Creo; supported FAI and vendor reviews
- Designed cooling subsystems PID and performed thermal load calculations for electronic racks
- Worked with cross-functional teams and vendors for development, installation, and leak test.

Kateeva, Inc., Newark, CA

Sr. Mechanical Engineer

03/2022-11/2022

- Led layout configuration of display injector system design; optimized DFM for manufacturing
- Sheet metal design in Solidworks for vacuum enclosures with gaskets for robotic arm motion.
- Resolved issues related to display transferring and glass handling in motion between vacuum equipment.
- Led thermal management and cooling implementation to active equipment, modified P&ID.
- Built and tested for cleanroom modules in collaboration with global engineering teams.

Lyncean Technologies, Fremont, CA

Mechanical Engineer

11/2019-03/2022

- Performed thermal load & mechanical analyses for LINAC system.
- Prototyped server rack chassis and cable shielding, calculated heat transfer, thermal load, fluid/air flow to integrated compact spaced chassis/electronic racks design with cable management.
- Project management and led design for liquid cooling system design to data center, including electronic racks design, manifold system, cable management, cost estimate, and vendor selection.
- Created Creo 3D models with GD&T, P&ID, BOMs, and conducted design reviews with EE, ME, Physics scientist, and shareholders.
- Completed first milestone infrastructure built in Romania

MiaSolé Hi-Tech Corp., Santa Clara, CA

CAD Design Engineer

12/2017-11/2019

- Project management and process flow layout for international thin-film solar infrastructure projects.
- Led project timeline progress and immediate action plan and update for factory teams.
- Integrated metal part module interface design in ANSI and ISO standards.
- Schematics diagrams and layouts for liquid cooling systems for sixteen factories.
- Created SolidWorks models, engineering procurement documents and ECOs in Agile.

AECOM, Oakland, CA Mechanical Engineer 01/2006-10/2017

- Assisted Senior engineers to large-scale gas/hydraulic system design for DoE organization
- Responsible for mechanical drawings, P&IDs, and BOM in AutoCAD and 3D in MicroStation
- Conducted engineering calculations for thermal load, heat transfer, stress, and pipe sizing
- Supported feasibility studies and detailed design packages for energy projects

Education, B.S. Mechanical Engineering, University of California, San Diego — 09/2005

Certificate, FEA with application using CAE – 08/2025 **Sheet Metal Design and Process** - 07/2025

Certificate, Injection-Mold-Part-Design - 06/2025

Siemens NX UG - 06/2025