

Contact

www.linkedin.com/in/hai-wang-65b13b25 (LinkedIn)

Top Skills

Matlab
Finite Element Analysis
C++

Hai Wang

Product Design Engineer at Google
San Francisco Bay Area

Summary

Ph.D. in Mechanical Engineering with a focus on solid mechanics, structural analysis, finite-element analysis, multi-physics and statistic.

Specialties:

- Static, dynamic and thermo-mechanical coupling analysis
- Model material behaviors (metal, glass and plastic) at room/high temperature
- Conduct fracture, wear, contact, and thermo-mechanical coupling simulations
- Years of experience with commercial software like ABAQUS
- Years of experience in coding finite element method (python and fortran)

Experience

Google

Product Design Engineer - Structural Design and FEA

December 2022 - Present (2 years 11 months)

Mountain View, California, United States

Wearable

Amazon Lab126

Design Analysis Engineer

June 2017 - November 2022 (5 years 6 months)

Sunnyvale, CA

Design analysis engineer -

Lead design/FEA analysis and prediction to Echo Frame, Amazon Halo, Fire tablets, Accessories and other projects;

Work with cross-functional teams to address issues related to product design, structure, rub&buzz, reliability and manufacturing;

University of Michigan

Graduate Student Research Assistant

January 2012 - May 2017 (5 years 5 months)

Ann Arbor, MI

- Fracture analysis and crack growth in metal, and plastic

- Thermo-mechanical structural analysis

Conducted thermo-mechanical simulation for metallic structure to research structural behavior at different environments; simulation includes static, dynamic and thermal analysis; Coupled simulations at different time scales (creep and fretting wear) to research contact force relaxation; Formulated various ABAQUS subroutines (UEL, UEXPAN, CREEP, etc.)

Education

University of Michigan

Doctor of Philosophy (PhD), Mechanical Engineering · (2012 - 2017)

University of Michigan

Master of Science (M.S.), Mechanical Engineering · (2010 - 2011)

University of Michigan

Bachelor of Science (B.S.), Mechanical Engineering · (2008 - 2010)

Shanghai Jiao Tong University

Bachelor of Science (B.S.), Mechanical Engineering · (2006 - 2010)

Activity

09/16/2025, Dennis Davis added candidate to Staff Mechanical Engineer - Rings

09/16/2025, Dennis Davis updated candidate from Staff Mechanical Engineer - Rings

10/14/2025, Viewed by Dennis Davis