

Eunsung Kim

MECHANICAL ENGINEER · PRODUCT DEVELOPMENT

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SUMMARY

Mechanical engineer with experience in consumer-hardware integration, automotive steering-system development, and gear durability research. Background in mechanical design, cross-functional integration, supplier collaboration, and root-cause analysis.

EXPERIENCE

Microsoft

Dec 2025-Present

Mechanical Engineer II

- Translate functional goals into mechanical concepts, physical envelopes, clearances, mounting, and interface requirements.
- Coordinate component and enclosure integration studies, considering assembly, manufacturability, serviceability, and cross-functional constraints.
- Support prototype integration and evaluate component commonality through interface compatibility and product requirements.

Honda R&D Americas

Oct 2021-Nov 2025

Senior Steering Systems Design Engineer · Dec 2024-Nov 2025

Steering Systems Design Engineer · Oct 2021-Dec 2024

- Developed steering-system components, CAD models, drawings, and specifications using CATIA V5/V6, GD&T, and DFM/DFA.
- Worked on steering systems for Honda Pilot, Honda Passport, and Acura MDX, and contributed to common steering gearbox development for future vehicle models.
- Collaborated with suppliers and design, quality, and manufacturing teams on integration issues and cost, weight, and performance trade-offs.
- Investigated field failures and test anomalies through root-cause analysis and implemented long-term design corrections.

The Ohio State University

Aug 2019-May 2021

Graduate and Undergraduate Research Assistant

- Conducted gear fatigue and micropitting research, durability testing, precision inspection, and MATLAB analysis.

Etegent Technologies

May-Jul 2019

Mechanical Engineering Intern

- Worked on fixtures, motion-simulator testing, and vibration analysis.

TECHNICAL SKILLS

CATIA V5/V6 · SolidWorks · GD&T · Tolerance analysis · DFM/DFA · MATLAB · Root-cause analysis · Prototype integration

EDUCATION

The Ohio State University

M.S. Mechanical Engineering · May 2021

B.S. Mechanical Engineering · May 2020