

Isaac Kim, EIT

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EXPERIENCE

Structural Engineering Intern

June 2025 - Present

Hohbach-Lewin, Inc. | South Pasadena, CA

- Modeled and performed lateral analyses on structures in RISA-3D using relevant ASCE 7 load combinations, seismic design forces, and wind pressures.
- Developed Excel spreadsheets to perform pad footing design, equipment anchorage design, and overturning checks.
- Designed LFRS (moment frames, shear walls, diaphragms) and connections (chords, collectors, etc.) for wood structures.
- Completed joist, beam, and column design using Enercalc, optimizing structural integrity while cutting unnecessary costs.
- Produced calculation packages with structural plans, relevant AutoCAD details, and traceable load paths via Bluebeam.
- Logged code changes between ASCE 7-16 and ASCE 7-22.

Instructional Assistant (Grader)

March 2026 - June 2026

UC San Diego | La Jolla, CA

- Graded weekly Structural Materials (SE 105) homework assignments for 150+ structural engineering students

Engineering Pathways Intern

May 2024 - February 2025

U.S. Environmental Protection Agency | Los Angeles, CA

- Inspected 7 LQGs to determine compliance with RCRA Hazardous Waste guidelines (40 CFR §260 - §272).

PROJECTS

Steel Structure Design (SE 140A)

January 2026 - March 2026

UC San Diego | La Jolla, CA

- Designed the gravity load resisting systems (columns, splices, base plates) for an 8-Story Steel Structure
- Sized composite floors, columns, and moment connections using the AISC-360 and 4th-Edition Seismic Design Manual
- Computed seismic and wind design loads using ASCE 7-22, evaluating the structure for drift and ductility requirements using RISA-3D.
- Construct special moment frames using capacity design, according to Strong Column, Weak Beam (SCWB) philosophy.

Concrete Structure Design (SE 140B)

March 2026 - June 2026

UC San Diego | La Jolla, CA

- Created comprehensive design calculation packages for an 8-Story Concrete Structure.
- Designed two-way slabs using the lower-bound Strip Method and upper-bound Yield-Line Method, as well as adjacent girders according to ACI 318-19 specifications.
- Performed stability and strength analyses for cantilever retaining walls, ensuring safety against sliding, overturning, and bearing pressure failure.
- Engineered shear walls and boundary elements to meet seismic and ductility demands.

EDUCATION

Master of Science in **Structural Engineering** | **University of California, San Diego**

Expected March 2027

- GPA: IP

Bachelor of Science in **Structural Engineering** | **University of California, San Diego**

June 2026

- GPA: 3.76/4.00

Bachelor of Science in **Engineering Physics (3+2 Program)** | **Biola University**

June 2026

- GPA: 3.90/4.00

Relevant Coursework: Steel Design, Reinforced Concrete Design, Prestressed Concrete Design, Foundation Design, Advanced Structural Analysis, Conceptual Structural Design

SKILLS

Certifications: Engineering in Training (EIT) Certification, License #186739 (Issued January 2026)

Skills: Microsoft Excel | RISA 3D | Enercalc | Bluebeam Revu | AutoCAD | MATLAB | BlockPad | Solidworks

Languages: English | Korean | Latin