



Exponent®
Engineering & Scientific Consulting

Kai Jin

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Professional Profile

Mr. Jin has diverse experience within the construction industry coupled with a robust foundation in data science. His construction expertise spans cost control, change order management, project closeout, and sustainability reviews. Mr. Jin has contributed to various high-profile tech campus and healthcare projects, affording him a distinctive perspective on the construction field. Leveraging his data science skills, he has developed multiple automations that streamline tasks, saving time and allocating additional resources to his projects. With a keen understanding of the tech industry, Mr. Jin actively seeks products from prospective start-ups and devises novel approaches to tackle existing challenges in construction.

Before joining Exponent, Mr. Jin attained his master's degree in Civil and Environmental Engineering from the Systems Engineering program at the University of California, Berkeley. His focus centered on optimization and data forecasting. His research involved assessing the viability of EV charger installations across the San Francisco Bay Area, based on the existing utility infrastructure capabilities. By aggregating census, traffic, and utility data, he devised various geospatial analysis tools to examine feasibility. Mr. Jin earned his bachelor's degree from the University of California, Berkeley, majoring in Civil and Environmental Engineering with a minor in Data Science. During his undergraduate years, he led students in participating in the annual Design-Build Institute of America conference and competing in the student competition.

Academic Credentials & Professional Honors

M.S., Civil and Structural Engineering, University of California, Berkeley, 2023

B.S., Civil Engineering, University of California, Berkeley, 2022

Prior Experience

Project Engineer Intern, Rudolph and Sletten, 2020

Cost Engineer Intern, Rudolph and Sletten, 2021

Civil Engineer Intern, Tesla, 2022

Launch Engineer Associate, SpaceX, 2022

Graduate Student Instructor, UC Berkeley, 2023

Graduate Student Researcher, UC Berkeley, 2023

Languages

Mandarin Chinese

Japanese

Project Experience

Tech:

- Managed change orders between contractors and owners.
- Conducted field layouts for as-built documentation.
- Enhanced project closeout tracking by introducing startup tech to the project, improving efficiency of the process.
- Coordinated between subcontractors and designers.

Healthcare:

- Spearheaded the integration of LEED practices into building cost estimation, aligning projects with sustainable principles.
- Implemented Lean methodologies into the estimating process, optimizing efficiency and resource allocation.
- Executed meticulous take-offs and cost controls across diverse project scopes.

Industrial:

- Maintained factory permitting records and monitored the progression of coordination among stakeholders.
- Designed various civil structures to enhance traffic flow and facilitate rainwater collection.
- Employed drone surveying for a comprehensive survey of factory conditions, subsequently integrated into a digital twin model.
- Devised and implemented automation to optimize the release of drawing revisions, expediting the revision process.
- Conducted a comprehensive workplace analysis, contributing to strategic factory layout studies.

Aerospace:

- Conceptualized aerospace-grade trench drains capable of accommodating large SPMTs.
- Maintained wetland survey records in collaboration with AHJ to ensure build compliance.
- Engineered various retrofits to bolster blast protection ratings of critical infrastructure.
- Supervised construction teams in executing builds and repairs around launch sites.