An-Yih (Ken) Su, PE SE LEED AP ID+C
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STRUCTURAL ENGINEER

"Finding the best way through communication, collaboration and consistency."

Detail-oriented, problem solver with Structural Engineering License and experience managing people and projects for a diverse clientele. Excelling in defining and achieving project goals, building project teams, multidisciplinary communication, and influencing decision makers.

EDUCATION

B.S. Civil Engineering (Structural Emphasis)**,** Washington University in St. Louis, May 2001

REGISTRATIONS

California Structural Engineer No. S5581 and Civil Engineer No. C69529
Florida Professional Engineer No. 81472
Oregon Civil Engineer No. 77483PE
Texas Professional Engineer No. 123736
LEED Accredited Professional with Specialty No. 10483673

EXPERIENCE

Principal Structural Engineer

KSS Engineers March 2019 to Present
Austin, Texas

- Owner and proprietor.
- Provides strategic leadership and overall management.
- Performs structural design, documentation and construction administration.

Project Manager

JQ Engineering August 2016 to March 2019
Austin, Texas

- Successful project delivery of Texas A&M University's Agriculture Building No. 5, a four and five-story lab and classroom. The structure is concrete-framed, using skip-pan joists and girders. The building rests on auger-cast piles. At the second-floor, post-tensioned transfer girders achieve sight-line clearances in the first-floor auditorium. The project also features a three-story, steel-framed entry lantern. Estimated construction budget: $34 million.
- Successful design and value-engineering of Midwestern State University's Health Science and Human Services Center, a four-story, concrete building with curved and serpentine geometry consisting of skip-pan joists and girders. It is supported by drilled, straight-shaft piers. Estimated construction budget: $26.6 million.
- Managed design and construction administration for Williamson County's Courthouse Annex, a two-story, steel-framed, composite slab office and courthouse with a structural first-floor suspended over a crawl-space. Estimated construction budget: $12 million.
- Design-build, capital improvement project at Prairie View A&M University, including a steel and masonry addition to the "Baby Dome" and a steel-framed, concrete slab-on-void police station. Estimated construction budget: $14.7 million.

Ken Su, PE SE
512-401-3100

Senior Structural Engineer

Chicago Bridge and Iron *acquired by* WECTEC November 2013 to August 2016

Plant Vogtle Units 3 & 4 Construction Site, Waynesboro, GA

- Forecasted and scheduled engineering resources, organized and planned design work and directed the engineering team that delivered the civil, structural and architectural scopes for the raw and potable water, off-site retail and backup diesel power and yard fire suppression systems turnover package.
- Expedited construction schedule support by resolving field constructability and nonconformances, pertaining to the installation of special reinforced concrete shearwalls, mass concrete foundations and steel framing in the turbine building.
- Improved and encouraged a collaborative interdisciplinary environment resulting in more integrated, value-engineered solutions.
- Mentored the engineering interns and junior-level staff.

Structural Engineer 3

Evergreen Engineering *acquired by* SSOE Group January 2011 to October 2013

Hillsboro, OR

- Lead design-engineer for the Draco and TINY steel pipe trestles. The combined steel-weight of both trestles is approximately 150 tons. Prevented a costly factory outage by selectively placing bridge bents to avoid existing underground utilities. Engineered the special concentrically braced frame lateral force resisting systems and connections for each trestle.
- Lead engineer for a plasma-enhanced chemical vapor deposition tool (PECVD) build-out and installation at an operating, solar panel manufacturing facility. Developed a core-drilling execution plan for the general contractor to route twelve, 6-inch steel rigid metal conduits through an existing concrete shear wall which connected a series of new transformers to panels in the electrical room. Performed detailed structural engineering design for a wide variety of structures including: steel canopies covering yard equipment pads, a storage tank concrete foundation and cold-formed support framing for an automated material handler system.
- Seismic-retrofit of a three-story, irregular, steel exhaust stack tower located on the roof of an operating semiconductor production building. Used the modal response spectrum analysis procedure to model the tower's dynamic response to ground shaking.

Project Manager

ABHT Structural Engineers February 2004 to January 2011

Portland, OR

- Managed the design and construction for the James Hawthorne Apartments a four-story, heavy-timber and masonry building. Implemented an innovative continuous, multistory, tie-down system within the wall cavity to resist wind and seismic forces.
- Engineered the 40,500-SF, wood-framed, four-story Oakridge Park senior housing apartments. The project featured complex vertical structural irregularities and an eco-roof entry canopy.
- Performed detailed structural design for the Rosa Parks Elementary School a LEED Gold, two-story masonry, wood and steel-framed building. Exposed glulam beams support the cantilevered roof at the building's west elevation.
- Project manager of Trenton Terrace, a 55,000-SF, three-story, wood-framed, senior housing facility.
- Specified buckling restrained braced frames for the City of Portland's Emergency Coordination Center a two-story, steel-framed, essential facility that featured a sustainable green-roof terrace.
- Principal investigator and author of the Portland Memorial Coliseum solar panel feasibility study.

Structural Designer/Estimator
Quincy Joist Company September 2001 to February 2004
Buckeye, AZ

- Trained and supervised the technical staff in design, fabrication shop billing and construction field modifications of standard and composite, open-web steel joists and girders.
- Evaluated new hire performance at the end of the training period and provided staffing recommendations to the upper-level management.
- Recovered $91,000 in construction material and labor costs by value-engineering the Arizona Biltmore Hotel ballroom addition.

COMPUTER SKILLS

CAD & MODELING – Revit Structures, AutoCAD, Navisworks, Smartplant 3D, MicroStation
ANALYSIS – RAM SS, SAP2000, MathCAD, RISA 3-D, GT Strudl
PRODUCTIVITY – Microsoft Word, Excel, Outlook, PowerPoint, BlueBeam.