

Andrew R. Randolph, PE, SE, SECB, LEED

111 S. Court Street, Suite 210 ▪ Visalia ▪ CA ▪ 93291

Work: 559-553-0337 ▪ Cell: 559-967-6493

E-mail: drew@theworks.com

Highly motivated and qualified Structural Design Engineer, experienced in all phases of project development, from client contact, project planning, to completion and delivery of projects, with both hands-on design duties and experience in a management role. Able to take on leadership roles and responsibility for overseeing projects as well as act as a valuable contributor on project teams. Over fourteen (14) years of experience in Structural design engineering. Extremely proficient in Risa 2D and 3D and CAD.

TECHNICAL QUALIFICATIONS

- LEED Accredited Professional, 2009.
- Professional Engineer Certificate (Civil), 1998.
- Proficient in 2007 CBC Seismic and Wind Analysis requirements
- Structural Engineering Certificate, 2004.
- Proficient in AutoCAD (multiple releases)
- Proficient in Multiple Structural Design Software Platforms (Risa, RAMSteel, Enercalc, etc.)

RELEVANT PROJECT EXPERIENCE

Lemoore City Offices PV Project

Lemoore, CA

- Analysis of existing structural members for additional loads induced by new photovoltaic roof mounted array installation. Site visit, field measuring and computer analysis for multiple Code required load combinations. Preparation of report itemizing potential areas of concern. Consultation with owner and client to discuss cost effective mitigation efforts. Total project footprint in excess of 100,000 square feet.

Wingspoint

Bakersfield, CA

- Engineer of Record for two-story 50,000 s.f. concrete tilt-up office building. Panelized roof design of Open Web Steel Joist (OWSJ) and 2x6 purlins. Roof design for loads imposed by steel mechanical equipment screen similar to PV array. All mechanical screen connections designed and detailed for wind and seismic loads per Building Code.

California Pretzel Roof Upgrade

Visalia, CA

- Examination of existing roof for areas of overstress in framing members. Sub-purlin, purlin, beam and girder analysis. Cooperation with professional lumber grader for assistance in evaluating the proper grade of existing timber. Upgrade design, and detailing.

Peninsula Packaging Roof Penthouse Addition

Exeter, CA

- Wood penthouse design and detailing to accommodate large process silo. Penthouse designed for code prescribed wind and seismic loads. Diaphragm opening design and detailing. Analysis of existing diaphragm for new imposed loads. Existing roof member analysis. Upgrade design and detailing. Stamp and signature for governing agency submittal.

EMPLOYMENT HISTORY

Zeltmacher Structural Engineering

Visalia, CA

Owner and Structural Design Engineer

2010 – present

- Successfully operate three-man Structural Engineering firm. Business management including hiring and firing decisions, marketing, budgeting, and tracking.
- Employee mentorship and guidance.
- Structural systems design development and oversight.
- Client relationship management.

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Taylor Teter Partnership

Fresno and Visalia, CA

Structural Design Engineer and Project Manager

1996 – 2010

- Perform design duties, consisting of Structural System development, preliminary calculations by hand and computer, managing and directing design solutions from Design Development to Construction, including construction site visits.
- Management duties include: periodic budget review; staff management; and overseeing project progress meetings with project team, client and governing authorities, and Quality Assurance (QA) on finished Construction Documents.
- Additional duties include Mentoring of EITs (topics of note include professional development, personal library, periodical subscriptions, load flow concepts, sub-diaphragm design, governing agencies, approval processes and Building Code interpretation).
- Scoped projects and prepared proposals. Developed and abided by Work Plans and tracked project Earned Values. Served as Engineer of Record (PE, SE) on multiple projects. Managed EITs and draftspersons while performing QA duties.
- Executed Staff Engineering duties on projects of wood, steel, masonry, and concrete. Modeled Gravity and Lateral systems using various computer software platforms, including dynamic analysis. Performed hand calculations of beams, columns, walls, foundations, and retaining walls. Detailed and drafted Construction Documents. Served as Engineer of Record (PE) on multiple projects.

EDUCATION

California Polytechnic State University, San Luis Obispo, CA. B.S. Architectural Engineering, 1996.

Cerro Coso Community College, Ridgecrest, CA. Continuing Education coursework, 1991-1992.

University of California, Irvine, CA. Social Sciences coursework, 1990–1991.

RELEVANT SKILL SET DEVELOPMENT

Taylor Teter Partnership

Fresno and Visalia, CA

Project Proposals, Work Plans, Budgets and Quality

- Current career development adds Project Management to skill set. Development of client contact skills, project scope and proposal preparation, increased influence on project team, structural systems selection, mentoring and managing of staff, and an ability to motivate and encourage design team.

Taylor Teter Partnership

Fresno and Visalia, CA

Construction Document Development and Governing Agencies

- Further career development included additional exposure to overall design process including preliminary design (Schematic and Design Development Phase), introduction to governing agencies including City, County and Division of the State Architect.

Teter A+E, Taylor Teter Partnership

Fresno and Visalia, CA

Technical Expertise and Building Code Interpretation

- Early career focused on development and reinforcement of technical engineering concepts including structural stability, load flow, free body diagrams and connection design and fundamental drafting concepts including plans, details, line types, and detailing appropriately. Focus also included Building Code discussion and study by way of personal time, work time and seminar attendance.

CURRENT PROFESSIONAL INDUSTRY MEMBERSHIPS

- American Concrete Institute
- American Society of Civil Engineers
- Structural Engineers Association of Northern California
- Structural Engineering Certification Board