

David Grapsas, PE, SE – PRINCIPAL STRUCTURAL ENGINEER PROFESSIONAL LICENSED STRUCTURAL ENGINEER – AZ, NM

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PROFILE

- Principal of structural consulting firm United Structural Design, LLC
- Master's-level licensed structural engineer with 7+ years of professional experience in the building construction industry
- Adjunct Professor at Arizona State University – Teaching Master's Structural Engineering course in the Architectural Design School.
- Possesses a comprehensive working knowledge of state-of-the-art structural engineering practices and current building codes
- Demonstrates ability to manage projects of moderate to large scope
- Builds lasting relationships with clients and colleagues through reputation and outreach activities
- Well rounded practitioner with extensive field experience complementing design work

Key strengths include:

Building design	Steel design
Structural evaluation	Concrete design
Remodels/Additions	Foundations
Seismic design	Masonry design
Project management	Wood design
Sustainable design	Cold-formed steel
Building information modeling (BIM)	Technical writing
3D building analysis	Inspections and Field activities

- **Industries:** Commercial, Education (Higher Ed and K-12), Healthcare, Hospitality, Industrial and Manufacturing, Justice, Performing Arts & Entertainment, Public & Institutional, Religious, Retail, Technology
- **Certifications:** Licensed Structural Engineer (AZ, NM), NCEES model law structural engineer, Occupational Safety and Health Administration trained (OSHA 10-hour)
- **Computer Skills:** Adobe Acrobat, Microsoft Office, Newforma
- **CAD/Design Packages:** RAM structural system, RAM connection, RAM concept, RAM elements, Tedds, CFS, SAP2000, RISA 2D/3D, MATHCAD, AutoDesk (Revit/ AUTOCAD)

PROFESSIONAL EXPERIENCE

United Structural Design, LLC, Phoenix, AZ

Project Manager

June 2016 – Present

Principal at United Structural Design, LLC a full-service structural engineering consulting firm. Responsible for business management and technical activities. Directs and provides full-service structural engineering services for building and non-building projects.

United Structural Design, LLC was founded in 2013 and began operations in 2014.

- Member of executive team responsible for strategic planning, budgeting, and operations
- Responsible for developing financial and marketing strategies
- Engineer of Record (EOR)

Caruso Turley Scott, Inc., Tempe, AZ**Structural Engineer***February 2014 – June 2016 (2 years, 4 months)*

Responsible for managing multiple building projects with complex architectural designs to completion including: conceptual design, detailed design, assisting with financial control, representing the company at project meetings, special structural inspections, and supervising and reviewing work done by structural designers and E.I.T.s.

- Responsible for quality assurance oversight of the projects, ensuring that construction progress is on schedule, within budget and meets code requirements.
- Responsible for special structural inspections for projects of all building materials including masonry, steel, concrete, PT concrete, wood, and cold-formed steel. Lead special structural inspector for Porsche Dealership in Chandler, AZ.

PK Associates Structural Engineers, LLC, Scottsdale, AZ**Structural Designer & Special Structural Inspector***October 2012 – February 2014 (1 year, 4 months)*

Responsible for managing multiple building projects with complex architectural designs to completion including: conceptual design, detailed design, representing the company at project meetings, and special structural inspections.

- In charge of projects' complete life cycles from schematic design to construction.
- Responsible for special structural inspections for projects of all building materials including masonry, steel, concrete, PT concrete, wood, and cold-formed steel.

CH2M HILL – Structural Design Group (formerly Paragon Structural Design), Phoenix, AZ**Structural Designer, Lead Special Structural Inspector***December 2010 – October 2012 (1 year, 10 months)*

Started professional engineering career at Paragon Structural Design LLC where projects increased in scope and complexity throughout my tenure. Responsible for engineering of multiple high profile public sector and not-for-profit projects including Higher Education, K-12, Justice, and Semi-conductor facilities.

- In charge of projects' complete life cycles from schematic design to construction.
- Responsible for special structural inspections for projects of all building materials including masonry, steel, concrete, PT concrete, wood, and cold-formed steel. Co-lead special inspector for ASU ISTBIV Academic Building in Tempe, AZ.

ACADEMIC QUALIFICATIONS

M.S.C.E., Structural Engineering, The University of Texas (2010) - 3.24 GPA

B.S., Civil Engineering, University of Colorado at Boulder (2009) - 3.64 GPA

CONFERENCES AND RELATED TRAINING

- 2014-2016 Structural Engineers Association of Arizona Conference - June 2014, 2015, 2016 (9.0 PDH/year)
- 10-Hour OSHA Course in Construction Safety and Health - January 2010

PROFESSIONAL AFFILIATIONS AND VOLUNTEER EXPERIENCE

- Structural Engineers Association of Arizona (SEAOA); Member 2010-Present; Central Chapter Board Member 2015-Present; Founding Member of SEAOA Young Members Group 2014.
- ACE Mentor 200-Present
- Also volunteers for Habitat for Humanity, Construction, and National Engineers Week Educational Program.

PERSONAL INTERESTS

- Car restoration including a 1992 Mustang and 1965 Dodge D100 Truck
- Physical fitness and nutrition

DISTINGUISHED PROJECTS

- **Porsche – Chandler, Arizona**
LEED Gold Certified 2 story, 34,000 sq. ft. car dealership.
- **Restoration Hardware – Atlanta, Georgia**
\$20 million dollar, 6 story steel building consisting of steel moment frames and steel braced frames.
- **Sub-Zero Warehouse Expansion – Glendale, Arizona**
200,000 + sq. ft. warehouse expansion comprised of concrete tilt walls and steel braced frames.
- **El Mirage Police Station – El Mirage, Arizona**
23,000 sq. ft. masonry and steel building.
- **Optima High Rise Luxury Apartments – Scottsdale, Arizona**
11 story, 7 story, and 4 story Post-tensioned concrete apartment buildings with concrete moment frames and concrete shear walls.
- **Grand Canyon University Student Union Building – Phoenix, Arizona**
4 story masonry and steel building with composite steel floor structure.
- **Maricopa Heritage Fire Station – Maricopa, Arizona**
11,000 sq. ft. Fire Station building with wood roof and masonry walls.
- **Yuma Emergency Medical Center Tower – Yuma, Arizona**
300,000 sq. ft., 6 story steel building.