

Mark Orr | Senior Engineer, Professional Engineer

407 South 107TH Avenue, Suite A22, Tolleson, AZ 85353

602-281-9687

mark.orr@efiglobal.com

Professional Summary:

Mark Orr has twenty-one years of experience as a civil engineer with structural design experience. His extensive background has allowed him to develop a variety of civil engineering skills, including: Field Engineering, Construction Engineering, Construction Management, Grading issues, Structural Design of Residential and Commercial Buildings, and Forensic Engineering with an emphasis in Construction Defect and Compliance.

The various engineering fields which have formed his skills, along with his strong spatial relation skills, allow him to bring a unique perspective to the projects in which he is involved. Having been responsible for scheduling projects, designing residential and commercial projects, as well as the construction management of residential and commercial projects has given him the ability to quickly identify and prioritize design issues. He spent many years in assisting construction managers in site layout, and sequencing.

As a Forensic Engineer, Mark evaluated multiple structures in the wake of Hurricane Ike and Hurricane Sandy. Multiple trips to the Gulf area and East Coast allowed him to work with areas suffering from wind and flood damage. Has experience in construction defect claims, building envelope analysis, improper installation of roofing systems, and moisture intrusion analysis.

Areas of Expertise:

- Construction Defect
- Improper Roofing Systems Installations
- Wind and Hail Inspections for Multiple Roofing Systems
- Building Envelope Analysis

Licenses and Certifications:

Professional Engineer, AZ, #45655

Professional Engineer, CO, #44523

Professional Engineer, NM, #20024

Professional Engineer, NE, #E-16017

Professional Engineer, FL, #80828

Project Experience:

Forensic Engineering

- Commercial & Residential Construction
 - Hail & Wind Inspections (in excess of 700 inspections)
 - Building Envelope Analysis

- Roof & Floor Framing Failure Analysis
- Construction Defect
- Differential Movement of Foundation Systems
- Site & Retaining Wall Failures
- Structural Fire Damage Analysis
- Complete Structural Repair Drawings & Specifications
- Structural Design & Analysis
- Moisture Intrusion Analysis
- CAT Inspections (Hurricanes & Tornados)

Residential & Commercial Design & Inspection

- Suft Construction Corp. – Phoenix, AZ
- Ellermann & Schick, Inc. – Phoenix, AZ
- Benson Systems – Gilbert, AZ
- Multiple Residential & Commercial Structural Designs in Phoenix Area

Construction Management

- Approximately 13 Residential Homes in Phoenix & Scottsdale, AZ
- Airport Hangers – Williams-Gateway Airport, Mesa, AZ

Court Qualifications/ Depositions:

Litigation CV available upon request.

Professional Experience:

EFI Global, Inc., Forensic Engineer, Nov. 2008 - Present

Consulting Engineers Corp., Project Designer, Feb. 2008 – Oct. 2008

Yarborough Development, Project Manager, Jan. 2008 – Feb. 2008

Peak One Builders & Development, Project Manager, May 2005 – Dec. 2007

Town of Cave Creek, Assistant Town Engineer, Jan. 2005 – May 2005

Gervasio & Associates, Project Designer, Aug. 2002 – Dec. 2004

Caruso, Turley, Scott, Inc., Project Designer Mar. 2000 – July 2002

Education:

Bachelor of Science, Civil Engineering, University of North Dakota, Grand Forks, ND, 1999

Courses Instructed/ Guest Lecturer:

Scene & Investigator Safety Training Seminar, Apache Junction, AZ, October 5, 2010