



**DEREK E. HANSON, P.E.**

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## **CURRICULUM VITAE**

- **Serving since 2007 as a Civil (Structural) Engineer, designing a broad spectrum of commercial (retail, office, industrial, etc.), residential and forensics projects.**

### **PROFESSIONAL EXPERIENCE:**

#### **MAY 2018 TO PRESENT: STRUCTURAL ENGINEERING EXCELLENCE, LLC.**

**Gilbert, Arizona**

**OWNER** of this full service structural engineering company, an Arizona Limited Liability Company; company specializes in:

- Commercial, industrial and residential structures of timber, concrete, masonry, steel and aluminum building materials.
- Structural damage investigations
- Industrial and manufacturing
- Retail Tenant Improvements
- Specialty use
- Custom residential designs
- Solar support structures: Roof-mount, ground-mount, ballasted, mechanically attached. Large and small scale projects.

Projects include structural damage investigations, industrial and manufacturing, retail, specialty use, custom residential and solar projects. A sampling of these projects follows:

## STRUCTURAL DAMAGE INVESTIGATIONS:

- City of Cottonwood WWTP – Repair design of damaged concrete at WWTP; Cottonwood, Arizona
- Denham Residence Plane Impact – Small Plane Impact at Residence; Payson, Arizona
- Provide Structural Damage Investigations and Assessments for multiple claims

## INDUSTRIAL AND MANUFACTURING:

- Hunter Douglas – Equipment Platform; Phoenix, Arizona
- Kattera – Existing Building TI's and Steel Canopies; Phoenix/Glendale, Arizona
- Chino Valley WWTP – Catwalk and Safety Line; Chino Valley, Arizona

## RETAIL TENANT IMPROVEMENTS:

- Scratch Catering; Phoenix, Arizona
- Eggstacy TI; Chandler, Arizona

## SPECIALTY USE:

- Light Rail Fiberglass Canopies; Gilbert, Arizona
- Antenna Support Structures; Various Locations

## RESIDENTIAL:

- Sparks Residence Addition; Scottsdale, Arizona
- Arroyo Residence Remodel; Scottsdale, Arizona

## SOLAR RACKING:

- Las Flores Car Wash – Rooftop Solar Pipe Racking; Rancho Santo Margarita, CA
- Boyenga PV Array – Steel Canopy; Atwater, CA
- BoxPower – Pipe Supports on Shipping Container; Various Locations
- Rooftop & Ground Mounted PV Arrays – Commercial & Residential Installations; Multiple States

**MAY 2013 TO APRIL 2018: STARLING MADISON LOFQUIST, INC.  
Phoenix, Arizona**

**STRUCTURAL DESIGN ENGINEER, ASSOCIATE & PROJECT MANAGER** for this full service structural engineering company, aka STARLING & ASSOCIATES, INC. and RADER-STARLING & ASSOCIATES, INC., an Arizona Corporation; company specializes in:

- Commercial, industrial and residential structures of timber, concrete, masonry, steel and aluminum building materials.
- Solar support structures: Roof-mount, ground-mount, ballasted, mechanically attached. Large and small scale projects.
- Curtain wall / glazing / aluminum window framing systems.
- Forensic engineering of structural building failures or problems
- Insurance claim investigations
- Construction inspections
- Custom residential designs

Projects include forensic studies and failure investigations, construction defect and litigation investigations, industrial and manufacturing, retail, specialty use, custom residential and solar projects. A sampling of these projects follows:

**FORENSIC STUDIES AND FAILURE INVESTIGATIONS:**

- Tree impact roof collapse at Frank Lloyd Wright designed home; Scottsdale, Arizona
- Casa Requena 2 apartment complex stair water damage assessment and repair; Scottsdale, Arizona
- Provide Structural Fire Damage Investigations and Assessments for multiple fire claims each year
- Provide Structural Damage Investigations and Assessments for multiple impact (vehicle, tree, etc.) claims each year
- Provide Structural Damage Investigations and Assessments for multiple roof collapses / partial collapses each year

## CONSTRUCTION DEFECT AND LITIGATION INVESTIGATIONS:

- Bombardier v. Weitz
- Sentry Select Insurance Co. v. Eaglespan, Inc.

## INDUSTRIAL AND MANUFACTURING:

- Celgene Corporation – Piping Supports; Phoenix, Arizona
- Pinal Energy – Piping Supports and Equipment Platforms; Maricopa City, Arizona
- Mount Baker Vapor Mezzanine; Mesa, Arizona
- CMC Steel – Safety Platforms; Mesa, Arizona

## RETAIL:

- O'Reilly Auto Parts; Multiple Locations in Multiple States
- Christian Brothers Automotive; Chandler, Arizona
- JDM Countertops; Phoenix, Arizona
- Wendy's Remodel; Phoenix, Arizona
- Denny's Remodel; Show Low, Arizona

## SPECIALTY USE:

- CGCC Coyote Center Curtain Walls; Gilbert, Arizona
- Light Rail Fiberglass Canopies; Mesa, Arizona

## RESIDENTIAL:

- Moore Residence Remodel; Phoenix, Arizona
- Vaccaro Residence New Build; Phoenix, Arizona
- Leighton Residence Remodel; Scottsdale, Arizona
- Coronado Remodel – 2<sup>nd</sup> floor addition to historic home; Phoenix, Arizona

## SOLAR RACKING:

- IronRidge Racking – Racking Certifications for various products; Multiple States
- Sunmodo Corp. – Commercial & Residential Installations; Multiple States
- Hollaender Pipe Racking – Commercial & Residential Installations; Multiple States
- Rooftop & Ground Mounted PV Arrays – Commercial & Residential Installations; Multiple States

**SEPTEMBER 2011 TO OCTOBER 2011: TYP SA GROUP**

**Madrid, Spain**

**STRUCTURAL DESIGN ENGINEER, STRUCTURAL DESIGNER** for this multi-discipline, civil engineering company; company specializes in:

- Commercial, industrial, educational, health services building structures of timber, concrete, masonry, steel and aluminum building materials.
- Transportation projects.

Completed projects include:

**EDUCATION:**

- Student Lobby – Riyadh University Campus; Saudi Arabia

**MARCH 2010 TO MAY 2013: AZTEC ENGINEERING, INC.**

**Phoenix, Arizona**

**STRUCTURAL DESIGN ENGINEER, BRIDGE DESIGNER** for this multi-discipline, civil engineering company; company specializes in:

- Transportation projects for US federal and state Departments of Transportation, for the following disciplines: roadway, water resources, environmental, survey, traffic, utilities, structural.

Completed projects include:

**BRIDGE:**

- I-10/303 Traffic Interchange – Ramp NW; ADOT
- I-10/303 Traffic Interchange – Construction Administration; ADOT
- Agua Fria Truck Road Underpass Bridge; McDOT
- Sacaton Road Bridge over the Gila River; GRIC
- Ocotillo Road Bridge at Queen Creek Wash – Bridge Repair Assessment; Queen Creek, Arizona
- Limestone Wash Bridge – Historic Bridge Replacement Assessment; Pine-Winslow Highway, Arizona

**MAY 2007 TO MARCH 2009: CARUSO TURLEY SCOTT, INC.  
Tempe, Arizona**

**STRUCTURAL DESIGN ENGINEER, STRUCTURAL DESIGNER** for this full service structural engineering company; company specializes in:

- Commercial, industrial and residential structures of timber, concrete, masonry, steel and aluminum building materials.
- Construction inspections

Completed projects include:

**RETAIL:**

- Sports Authority, Mesa Riverview Shopping Center, Mesa, Arizona
- Walgreens Pharmacy, Multiple Locations throughout Arizona
- Panda Express, Multiple Locations throughout Arizona
- KFC & Taco Bell TI, Multiple Locations in Multiple States

**RESIDENTIAL:**

- Campus Suites on the Rail Apartments and Parking Garage; Tempe, Arizona
- Wilson Addition and Remodel; Pima County, Arizona

**PRODUCTS:**

- Integra Wall Systems; Multiple Locations in Multiple States
- Powers Steel Carports; Multiple Locations in Multiple States

**PROFESSIONAL  
REGISTRATIONS:**

<u>State:</u>	<u>License Number:</u>
Arizona	54440 (Civil)
California	82150 (Civil)

**PROFESSIONAL**

## **ASSOCIATIONS:**

- Engineering Ministries International (eMi) Network
- Structural Engineers Association of Arizona (SEAoA), Structural Engineers Emergency Response (SEER) Committee
- National Council of Structural Engineer Associations (NCSEA), Structural Engineers Emergency Response (SEER) Committee
- FEMA/US&R Arizona Task Force 1 (AZ-TF1)

## **EDUCATION:**

Arizona State University; Tempe, Arizona

- BS, Civil Engineering – 2007

## **PERSONAL:**

- Married since 2004, two children
- Hobbies include coffee, wood working, spending time with my family