

Work Experience

Duke Energy | Oct. 2009 – Present
Plainfield, Indiana

Civil Engineer

Civil and Structural Design: Electrical substation physical layout and design. Coordinate substation requirements and equipment selection with electrical engineers. Performed updates to structural standards to conform with contemporary code requirements.

Procurement and Construction: Attend site meetings to discuss construction requirement as well as assess existing site conditions. Create and approve work orders for required project materials.

Vertex Consulting Structural Engineers, LLC | Oct. 2006 – Sept. 2009
Scottsdale, Arizona

Structural Designer

Structural Design: Industrial, commercial, and residential projects; analysis of structural members, components, and foundations; also, create structural drawings, notes, and details.

Special Structural Inspections: concrete tilt-up panel pours, reinforcing steel (foundation, tilt panel, masonry), grout pours, structural welds.

Additional Responsibilities: reviewing shop drawings for compliance with structural specifications to aid proper fabrication and construction.

Unisys/International Business Machines | Sept. 2004 – Feb. 2006
Phoenix, Arizona

Desktop Support Technician

Onsite Contractor: Honeywell International onsite IT support for engineering and fabrication desktop environments.

Licensures & Certifications

California | **Professional Civil Engineer**
Six Sigma | **White Belt Lean**
CompTIA | **A+ Hardware/Operating Systems**

Education

Arizona State University - Civil Engineering | Aug. 2004 – May 2009
Tempe, Arizona

Bachelor of Science in Civil Engineering | Emphasis Construction Engineering

Qualifications

Structural Design: Able to communicate with architect from initial concept of project and create structural drawings, calculations, and details to meet architectural and functional demands. Proficient in engineering software: Enercalc V6, Risa3D, Staad.Foundation, RAMadvanse, AutoCAD 2011, Inventor 2011, Excel.

Construction: Perform special structural inspections, create plans/ calculations and follow through building department review, check shop drawings for conformance with design specifications.

Substation Design: Understanding of electrical codes for setbacks, spacing, and clearances for high voltage equipment up to 345kV. Experienced in selecting electrical bus, switches and other associated equipment.

Company Life: Have worked in variety of environments: small business, industrial and large corporation; often performing several roles within an organization.

Technical Literacy: Extensive computer skills including engineering and business applications, graphic and video editing software, server administration, network configuration, and desktop management.

Volunteer & Extracurricular Activities

ImagiNations 2009 Design Competition - Walt Disney Imagineering
June 2008 – April 2009

Led a four-person team, from ASU, in creating a design submission for the annual Disney ImagiNations contest. This project included floor plans, elevations, architectural design, and 3-D modeling. Project submission qualified for the semi-final judging round.

Proselyting Service Missionary - Tempe, Arizona | Feb. 2001 – Dec. 2002

Served as a full-time proselyting missionary for The Church of Jesus Christ of Latter-day Saints. Appointed as a supervisor over several other volunteer missionaries.

Congregational Service – Plainfield, Indiana | Sept. 2011 – Present

Currently, serve as clerk responsible for maintaining membership records.

Professional Associations

Associate Member | **ISEA**
Member | **ASCE**