David Hanson

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Skills

- Python: Including web development with Flask and Heroku
- PostgreSQL
- HTML5 & CSS3
- Data structures & algorithms

Experience

Magnusson Klemencic Associates

Design Engineer   2019 – 2020

One Chicago Square – Chicago, IL

- Two-tower building on a shared podium with a tuned-sloshing damper occupying a full city block in Chicago. Designed post-tensioned slabs as the primary design engineer for the 50-story residential tower and provided mild slab design support for the adjacent 78-story tower.

Epic Medical Solutions | Mystery, Campus 5 – Verona, WI

- Designed the major gravity and lateral components of a 3-story steel office building. Architecture was under constant revisions based on evolving design vision. Navigated the changes with alacrity, collaborating to address problems and meet deadlines.

- Project located on an existing parking garage that was not originally designed for future development under the unique project footprint. Developed safe, constructible solutions for strengthening the existing parking garage under new building loads.

5th and Brazos – Austin, TX

- Worked as the primary point of contact for construction administration of a 32-story residential concrete building. Provided numerous post-install solutions for connections with unique geometric constraints.

4th and Brazos – Austin, TX

- Performed lateral analysis studies in ETABS to determine optimal shear wall design for schematic study an 80-story concrete residential building. Produced a somewhat unconventional but highly effective solution and proposed it to the project's Principle in Charge. It was ultimately decided to use one of the more conventional solutions due to architectural considerations.

PND Engineers, Inc.

Staff Engineer   2013 – 2015

Most notable experience involved on-site construction administration for two 2-3 week stints for the following project.

Baffinland Iron Mines Port Design

- Oversaw quality control as the single representative engineer on site for the completion of PND's Open Cell Sheet Pile$^{®}$ port structure. Coordinated with construction and surveying representatives to ensure conformance to dredging and scour rock placement tolerances, among other finalizing project details. Project costs totaled $45 million.

Education

Zero to Mastery Academy   **Remote**

Zero To Mastery Inc.   2021

Courses completed or in progress:

- Complete Python Developer in 2021
- Data Structures and Algorithms
- Complete SQL and Databases Bootcamp

University of Washington, College of Engineering   **Seattle, WA**

Master of Science in Structural Engineering   2015 – 2016

Bachelor of Science in Civil Engineering   2011 – 2015

- Emphasis in earthquake analysis and design for concrete and steel building systems. Study ranging from linear-elastic to nonlinear-plastic analysis methods.

Full Time Training in Anaheim (FTTA)   **Anaheim, CA**

Living Stream Ministry   2017 – 2018

A faith-based, post-graduate leadership development and outreach training program.

- Managed logistical operations of an international ministry center for 10 regional and international conferences over a period of two years ranging from several hundred to several thousand registrants.

- Accumulated over 1,000 hours of volunteer experience, coordinating closely with a 6-10 member team to conduct mentoring in stress management and general human development for community members in Anaheim, CA.