




# David Hanson

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## Technical Software Skills

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- Python: object oriented and functional programming, web development with Flask
- Machine learning: scikit-learn, Matplotlib, pandas, NumPy
- Sequel and NoSQL databases
- Data structures & algorithms

## Experience

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### Magnusson Klemencic Associates

*Design Engineer*

Collaborated with a team of three to five highly skilled engineers designing high-rise residential and office buildings. Received extensive in-house training, particularly in the design of concrete systems.

#### One Chicago Square

- Nearly 1000 feet tall, 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

- Designed all major structural components of a 3-story steel office building in Verona, Wisconsin. 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.

#### 4<sup>th</sup> and Brazos

- Performed lateral analysis studies to determine optimal 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*

#### 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 company representatives for project completion. Project costs totaled \$45 million.

## Education

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### Zero to Mastery Academy

*Zero To Mastery Inc.*

Courses completed or in progress:

- Complete Python Developer Bootcamp
- Complete Machine Learning and Data Science Bootcamp
- Complete SQL and Databases Bootcamp
- Data Structures and Algorithms

### University of Washington, College of Engineering

*Master of Science in Structural Engineering*

*Bachelor of Science in Civil Engineering*

### Full Time Training in Anaheim (FTTA)

*Living Stream Ministry*

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.