

Summary

Ambitious team-oriented Structural Engineer with 7+ years of comprehensive industry experience. Proficient in CAD, structural calculations, and project management software. Experience in designing and inspecting residential and commercial buildings, and small scale amusement rides across the country. Well-versed in conducting structural inspections, creative new and repair design options, and coordinating on-site construction teams. Driven to create unique projects to meet a client's needs in a timely manner while managing any budget.

Skills

- CAD Drafting
 - Specification Reading
 - Site Inspection
 - Project Management
- Safety Rule Enforcement
 - Cost-Effective Design
 - Load Calculation
 - Codes Compliance

Experience

Structural Design Engineer/Project Manager, 06/2018 to Current

The Misch Group – Pittsburgh, PA

- Create CAD models and drawings for residential, commercial, amusement ride, and natural disaster repair designs.
- Assist drafters in developing structural design of products using drafting tools or computer-assisted design (CAD) or drafting equipment and software.
- Support engineering design development through analysis and simulation of prototypes and 3D computer models.
- Complete accurate engineering calculations for weights, loads and other metrics using both manual and digital methods.
- Collaborate with clients, architects, engineers, contractors and sub-consultants on projects to ensure project accuracy.
- Attend professional training courses to maintain current knowledge and licensure (NAARSO & ACCT).
- Design structures for construction using various building mediums.
- Travel to build sites to perform structural inspections and to collaborate with construction personnel and to confirm compliance with design parameters and regulations.
- Organize and direct construction and demolition and related activities on fire damaged projects.
- Inspect and evaluate existing buildings for structural deficiencies and code violations.
- Verify construction documentation to meet client requirements and vision.

Structural Design Engineer, 06/2016 to 06/2018

Intel Corp. – Fairfax, VA

- Created CAD models and drawings for residential, commercial designs.
- Supported engineering design development through analysis and simulation of prototypes and 3D computer models.
- Completed accurate engineering calculations for weights, loads and other metrics using both manual and digital methods.
- Collaborated with clients, architects, engineers, contractors and sub-consultants on projects to ensure project accuracy.
- Designed structures for construction using various building mediums.
- Traveled to build sites to collaborate with construction personnel and to confirm compliance with design parameters and regulations.
- Inspected and evaluate existing buildings for structural deficiencies and code violations.
- Verify construction documentation to meet client requirements and vision.

Project Engineering Intern, 06/2015 to 06/2016

Fifth Wall – Washington, DC

- Double-checked documentation and work orders.
- Assisted in planning site layouts and blueprints.
- Acquired knowledge of industry trends and developed solutions and strategy through effective research.
- Assisted with quality inspections and document editing.
- Collaborated with on-site directors, operations managers and supervisors on engineering projects.
- Completed a large scale commercial project consistently sticking to strict schedules and budgets from start to finish.
- Verified construction documentation to meet client requirements and vision.
- Managed project documents, blueprints and specifications.
- Examined project specifications to design effective schedules, budgets and project scopes.
- Managed various stages of construction projects.
- Coordinated responses to RFIs issued by contractors for various scopes.

Education, 12/2002 to 06/2015

NREMT-Paramedic, REMSA – City, STATE

- Triageed injuries by communicating with patients, bystanders and family members and identified appropriate medical facility for transport.
- Used computer aided charting to accurately document services provided to reduce liability and improve patient care.
- Developed and maintained rapport with coworkers and local hospital staff to facilitate efficient patient care.
- Prioritized tasks to provide effective care for over 10 daily patients.
- Provided advanced cardiac, respiratory, trauma, stroke, and pediatric emergency care.
- Stayed in constant communication with patients to continuously maintain care and comfort during transportation.
- Responded to daily emergencies and worked alongside firemen and EMTs.
- Trained new EMTs and Paramedics in life support and intervention skills as an FTO.
- Adapted treatment plans quickly and effectively based on changing patient conditions and reactions.

Education and Training

Bachelor of Science: Civil Engineering, 12/2016

University of Nevada - Reno - Reno, NV

Associate of Science: Paramedicine, 08/2006

REMSA/University of Nevada, Reno Cohort

Websites, Portfolios, Profiles

- <https://www.linkedin.com/in/tawni-d-08570178/>

Certifications

- NAARSO - Level I
- ACCT - Professional Inspector Level II