

## **EDUCATION**

### ***B.S.E., Civil and Environmental Engineering***

***June 1996***

University of Michigan, Ann Arbor, Michigan, GPA 3.5

- Cum Laude, Class Honors, Dean's List, Semper Fi member and Chi Epsilon member
- Evaluated #1 in class of 25 NROTC midshipmen for 3 consecutive semesters
- Appointed NROTC highest ranking midshipman officer during senior year of college

## **PROFESSIONAL EXPERIENCE**

### ***Project Engineer***

***January 2006 – Present***

The Pepper Engineering Group, Inc.

Perform forensic engineering assessments of damaged structures. Perform structural engineering analysis and design on residential and commercial projects.

### ***Residential Design Engineer***

***September 2003 – January 2006***

WCI Communities, Inc.

Perform structural analysis and design from concept to completion for multi-million dollar single-family custom homes and multi-family structures. Develop complete AutoCAD structural drawings for use in construction and coordinate plan development with architectural staff. Support construction personnel through oral and written communications and site visits with follow-up repair directives and drawings. Maintain correspondence with permitting agencies. Accurate and thorough plans pass rigorous permitting processes with few or no comments. Provide proactive conflict avoidance to architectural staff by consistently and accurately spotting potential problems prior to construction phase.

- Passed the State of Florida Professional Engineering Exam on the first attempt
- Developed comprehensive MS Excel structural analysis/design spreadsheets for footings, masonry, beams, etc.

### ***Field Engineer***

***March 2001 – September 2003***

Professional Engineering & Inspection Company, Inc.

Performed threshold inspections on new multi-story commercial construction. Performed special inspections on small commercial and residential new construction and repairs/modifications to existing structures. Observed or inspected project sites prior to, during, and after construction to assess construction progress and ensure conformance with engineering plans, specifications, regulations, and accepted construction standards. Maintained communications with contractor, subcontractors, owners, engineers, architects, and building officials. Extensive experience with numerous methods of heavy commercial construction. Residential experience includes but is not limited to concrete, masonry, wood framing, truss systems, and sheathing. Miscellaneous inspection experience includes caisson drilling and steel placement, metal truss systems, roofing, timber and glue-lam, door and window installation, stucco, fireproofing, drywall and interior framing, various types of signal transmission tower assemblies, and shoring. Performed engineering analysis and design of wood, concrete, steel and masonry structures on periodic basis. Conducted assessments and wrote reports on various property damages and/or failures.

- State of Florida Registered Standard Building Inspector

### ***Forensic Engineer – Construction Manager***

***August 1999 – March 2001***

The Pepper Engineering Group, Inc.

Conducted damage assessments and wrote reports on various types of property damage and/or failures due to environmental or other effects. Organized and conducted multi-discipline, due-diligence inspections and compiled reports for prospective buyers of multi-story buildings. Performed reinforced concrete, steel, and wood structural analysis and design involving foundation repairs, steel support structures, wood roofs, and shoring. Construction manager and field inspector for concrete restoration and waterproofing projects, including post-tensioning repairs. Prepared and implemented construction bid forms, project manuals, and contract documents. Reviewed drawings and wrote specifications. Reviewed and tracked schedules, pay requests, submittals, quantities, and change orders. Maintained logs and developed correspondence. Successfully engaged several simultaneous projects.

***First Lieutenant******June 1996 - July 1999***

United States Marine Corps

Successfully and effectively directed the law enforcement and security for over 25,000 residents on 3 military bases, consequently entrusted with the largest Military Police District on Okinawa, Japan. Developed comprehensive base anti-terrorism security plan that served as a model for other military bases throughout Okinawa. Increased security patrols by 30% while at staff reductions of 20% through schedule optimization. Successfully developed and sustained an effective international relationship with Japanese Governmental police agencies in the politically sensitive atmosphere of Okinawa, Japan. Achieved the highest rifle and pistol scores in platoon of 50 lieutenants, and second highest in company of 250 lieutenants through focus and application of learned skills.

- Graduated in the top third of the Basic School in Quantico, Virginia
- Selected for the rank of Captain

***Engineering Quality Control Supervisor******September 1988 - September 1992***

United States Navy

Managed comprehensive repair work of various engineering equipment and systems aboard the aircraft carrier USS Constellation (CV-64) during SLEP (dry-dock) overhaul. Developed, coordinated, and supervised comprehensive repair work orders for hundreds of pumps, valves, turbines, piping systems and other engineering equipment. Streamlined department communications and procedures resulting in a marked increase in unit efficiency. Meritoriously promoted to Boiler Technician Second Class Petty Officer (E-5) in recognition of achievements.

- Graduated top of class from all Navy schools attended
- Awarded NROTC (Marine) Scholarship to attend the University of Michigan

***Residential Construction Carpenter******January 1986 - September 1988***

Mleko Construction Company, Inc.

Performed surveying and layout, concrete placement, framing, finish carpentry, drywall installation, and painting.

**TEACHING EXPERIENCE*****Mathematics and Physics Instructor******January 2001 – March 2001***

Florida Atlantic University

Prepared and instructed ACT, GMAT, and CLAST preparatory math classes. Assisted students with math and physics.

***Mathematics Instructor******August 1998 - February 1999***

Central Texas College, Pacific Far East Campus

Developed curricula and taught mathematics to civilian and military college students.

**PROFESSIONAL SKILLS AND AFFILIATIONS**

- Member of the American Society of Civil Engineers, and the Florida Structural Engineer's Association
- Certified Structural Engineer by the Structural Engineering Certification Board