

# Wilmer Flores

5716 Trellis Arch Apt. 204  
Virginia Beach, Virginia 23462

C: (910) 670-2418  
[wflor002@odu.edu](mailto:wflor002@odu.edu)

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## EDUCATION

### **Old Dominion University**, Norfolk, VA

*Masters of Science in Mechanical Engineering*

Advisor: Dr. Kareem Ahmed

Graduation: May 2015

### **North Carolina State University**, Raleigh, NC

*Bachelors of Science in Mechanical Engineering*

Licensed Engineer in Training (EIT)

Graduated: Dec 2008

Dec 2008

## WORK EXPERIENCE

### **NAVFAC**

*Mechanical Engineer*

*Mechanical Engineer Intern*

Norfolk, VA

Dec 2012-Current

May 2009-Dec 2012

- Provided HVAC, plumbing, and control system consultations per industry standards and codes
- Developed design plans, specifications and cost estimates for various mechanical systems for new construction and renovated buildings
- Engineered and analyzed building simulations using Carrier HAP, eQuest, Trane Pipe and Duct Design to size systems
- Led and coordinated design team to complete Review For Proposal package
- Developed Life Cycle Cost Analysis for mechanical systems
- Integrated LEED criteria into design projects
- Sized air compressors, boilers, pumps, piping, cooling, heating, ventilation and exhaust systems
- Performed testing and balancing of various air conditioning equipment
- Diagnosed system problems and engineered solutions for client comfort
- Implemented various design codes to meet energy savings requirements

### **HOFFMAN & HOFFMAN INC.**

*Mechanical Sales Engineer Intern*

Wilmington, NC

May 2008-July 2008

- Appraised project quotes for clients
- Performed presentations for engineers on various product lines
- Established various relationships with clients and engineers
- Utilized product software to size products accordingly
- Provided air comfort solutions for various applications
- Solved client mechanical systems issues

## PROJECTS

### **Cooper Tools Lufkin Tape Measure**

- Senior design project included experimental measurements of building a test stand that would simulate improvements to tape measure blade and reduce buckling.

- Computational stress analysis performed in SolidWorks to improve blade profile and test tape measure blade.

## **SKILLS**

- Fluent in Microsoft Suite
- Programming in Java, Matlab, Fortran, VPython
- 3-D modeling in SolidWorks and AutoCAD
- Machining experience using Mill and Lathe