# Mark G. Dwyer

Advanced Structures and Composites Center
University of Maine
35 Flagstaff Road
Orono, Maine 04469
o.207.581.2331 c.207.356.7748
mark.g.dwyer@maine.edu


## Education

University of Maine, Orono, Maine — M.S. in Civil Engineering August 2017. GPA: 3.92
University of Maine, Orono, Maine — B.S. in Civil Engineering, May 2014. GPA: 3.98
Relevant courses: Structural Analysis, Structural Steel Design, Reinforced and Prestressed Concrete Design, Structural Dynamics, Bridge Engineering, Design of Wood and Masonry Structures.
University of Maine Presidential Scholar Award for 4.0 semesters, Fall 2011, Spring 2012, Spring 2013, Spring 2014.
Passed Fundamentals of Engineering exam, October 2013, EIT Certificate No. 6828.
University of Maine Student Employee of the Year 2014.
Maine Student Employee of the Year 2014.

## Experience

**Advance Structures and Composites Center, Engineer III, Orono, ME — July 2017 - Present**
Research engineer working on concept development of concrete hull floating offshore wind turbines. Co-principle investigator research projects. Prototype development of structural components from CADD Modeling to construction drawings to final fabrication. Scientific Diver supporting model testing for the Center's Harold Alfond $W^2$ Ocean Engineering Lab.

**Advance Structures and Composites Center, Engineer II, Orono, ME — June 2014 – June 2017**
Worked as a research engineer on concept development of concrete hull floating offshore wind turbines. Developed prototypes of structural components from CADD Modeling to construction drawings to final fabrication. Member of scientific diving team that supports model testing for the Center's Harold Alfond $W^2$ Ocean Engineering Lab.

**Advance Structures and Composites Center, Student Research Assistant, Orono, ME — February 2012 - May 2014**
Oversaw and organized collaboration of modelers and drafters for offshore wind design group. Oversaw 50% design drawings for VolturnUS 6 MW floating offshore wind turbine (FOWT) that received third party approval by American Bureau of Shipping (ABS). Oversaw drafting and construction documentation for VolturnUS 1:8 FOWT, deployed off Castine, ME, June 2013. Developed and initiated documentation standards and title blocks for VolturnUS projects. Researched topics pertinent to the design group.

**Nate Holyoke Builders, Finish Carpenter, Holden, ME — April 2011 - December 2011**
Worked with a crew of finish carpenters on architect-designed custom homes.

**Cianbro, Pipewelder/Fitter, Pittsfield, ME — February 2008 - April 2011**
Member on pipe installation crew on Motiva oil refinery modules at the Eastern Manufacturing Facility in Brewer, Maine. Member of boiler and maintenance projects at paper mills and industrial facilities throughout Maine. Consistently produced x-ray quality pipe welds with a 100% acceptance rate.

**Self Employed, Independent Contractor, Bangor, ME — Sept. 2003 - Nov. 2009**
Managed all aspects of residential construction projects from design to finances to scheduling, through construction. Hired and managed subcontractors. Designed, built, finished and installed custom cabinetry and custom built-ins.

## Computer & Technical Skills

SolidWorks • AutoCAD • SketchUp • LayOut • MatLab • Mathcad
Welding: SMAW, FCAW, GTAW, GMAW • Acetylene Torch • Carbon Arc Gouging • Plasma Cutter

## Certifications

American Academy of Underwater Sciences - Scientific Diver - August 3, 2016
Scuba Diving International - Rescue Diver - August 3, 2016
PADI - Advanced Open Water Diver - July 27, 2016
PADI - Open Water Diver - November 23, 1999
DAN - Diving First Aid for Professional Divers - June 8, 2016