

Michael Robert Maley

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Objective: To work for a company in the Richmond, Virginia area with a challenging atmosphere that will enhance my mechanical engineering and mathematics skills and experience

EDUCATION

Bettis Reactor Engineering School, West Mifflin, PA

Applied Nuclear Physics

Applied Structural Mechanics

The Pennsylvania State University, University Park, PA

Graduated May 2010

Bachelor of Science in Mechanical Engineering

Minor in Mathematics

Cumulative GPA: 3.39/4.0

ENGINEERING WORK EXPERIENCE

Associate Engineer, West Mifflin, Pennsylvania

Bechtel Marine Propulsion Corporation

May 2011 to Present

- Worked under lead engineer on the design of unique reactor servicing equipment for the United States Navy to handle high level nuclear waste
- Trained in cooperate structure, procedures, and safety
- Received and gave feedback through peer review (currently on team to evaluate peer review process)
- Documented design work in technical work records
- Currently leading the design of equipment to safely transfer high level nuclear waste in a blind and confined environment.

Project – Design fixtures to develop and perform proof of principle tests of reactor servicing equipment

- Designed fixtures through the iterative process of validating concepts and proving feasibility
- Drafted engineering sketches of dimensions and specifications for the designed components
- Wrote addendums to vendor's scope of work contract to facilitate proof of principal testing
- Found a less expensive material supplier than originally quoted by vendor, saving company money
- Conducted proof of principal tests using the designed fixtures, contributing to the development of new reactor servicing equipment
- Submitted a detailed test report, upon the completion of testing, to Naval Reactors.

WORK HISTORY

Driver, Kensington, Maryland

Winter 2010

Take-out Taxi

Head of Maintenance, Germantown, Maryland

Summer 2007, 08, 09, 10

Valley Mill Summer Camp

Swim Coach, Poolesville, Maryland

Summer 2008

Poolesville Swim Team

Computer Programmer, Washington, District of Columbia

Summer 2005

United States Department of Labor

QUALIFICATIONS

Certified Engineer in Training

Department of Energy Security Clearance

Skilled at breaking down complicated scenarios into simpler steps

Modeling Software: MatLab, Simulink, SolidWorks, CosmosWorks, FloWorks, CarSim, ProE, AutoCAD

Programming Languages: MatLab, C++, Java, JavaScript, Delphi (Pascal), Python, HTML, MathCAD

Website: http://www.advdelpphisys.com/michael_maley/

ACTIVITIES

Sports: Swimming, Cross-Country, Skating, Skiing

Personal Projects: Motorized Bicycle, Wooden Clock, RC Plane, Model Rockets