

# Markham Laird

Wilmington, DE - Email me on Indeed: [indeed.com/r/Markham-Laird/e0096e77d6854dc7](https://www.indeed.com/r/Markham-Laird/e0096e77d6854dc7)

## WORK EXPERIENCE

### Marine Engineer

Wilmington Tug, Inc. - Wilmington, DE - February 2012 to Present

#### Responsibilities

AutoCAD – created color-coded piping system diagrams from for all 9 company vessels in AutoCAD.

Mechanical - working alongside 2 Master

Mechanics on projects including but not limited to:

- Summer 2012 re-power of tugboat Lindsey. Replaced Detroit 149's with 2400HP Cummins QSK's.
- Summer 2014 replacement of tugboat Harry's two C-series CUMMINS generators with John Deere generators.
- All repairs and maintenance on all 9 company vessels including launch boats. Engine ranges from 450-2600 HP, and brands such as Cummins and MTU Detroit Diesel.
- Machinery overhauls, repairs, fabrication of components and replacements such as fuel injectors and pumps.
- Maintenance such as subsequent reassembles, operational testing of controls, safeties, shutdowns, routine engine maintenance on fuel, oil, air, hydraulic, cooling systems and placing equipment in service.

Electrical - working alongside a Master Electrician on projects including but not limited to:

- Installation of shipboard isolation transformers and galvanic isolators in grounding system.
- Perform necessary repairs on 3-phase shore power system.
- Assist on main shore power step-down transformer from 460V delta to 120V 'Y'.
- Install main shore power and ships circuit breakers.
- Lighting conversion from florescent to L.E.Ds.
- Installation of motor controllers, heaters, switches, lighting and receptacles.

### Engineer in Training

SUNY Maritime College, TSES Summer Sea Term - Bronx, NY - 2007 to 2010

2010-2011, Jr. 3rd Assistant Engineer Officer, Empire State VI Maritime training vessel.

2007-2010, Jr. 3rd Engineer in Training, Total of 300 days sea experience onboard Empire State VI Maritime training vessel.

= Division Officer, promoted by Chief Engineer. Division Officers' duties and responsibilities include:

- Command two separate divisions of over a hundred aspiring engineers.
- Take muster and performing inspections of cadets thrice daily, including inspection of cadet living space.
- Organize work parties and watch lists.
- Enforce rules, regulations, and operating procedures of the ship.
- Lead bi-weekly Mast for cadets with punishable offenses.
- Maintaining a safe engineering watch.
- Electrical, electronic and control engineering at the operational level.
- Operate alternators, generators and control system.
- Construction and operational characteristics of shipboard AC and DC electrical systems and equipment.
- Controlling the operation of the ship and care for persons on board at the operational level.
- Operate, maintain and repair main and auxiliary machinery and associated control system.
- Use hand tools and measuring equipment for dismantling, maintenance, repair and reassembly of shipboard.

- Ensure compliance with pollution-prevention requirements.
- Prevent, control and fight fires on board. Survival at sea techniques, and operation of lifesaving appliances.
- Location of common faults in machinery and plant in engine and boiler rooms and action necessary to prevent damage.
- Operation of steam boilers, including combustion systems. Methods of testing and purification of water.
- TIG and Arc Welding
- AutoCAD Engineering Drafting: 2D and 3D Drawings
- AutoCAD Inventor Professional: 2D and 3D Part and Assembly Modeling

## EDUCATION

### **Bachelor's in Marine Engineering**

SUNY Maritime College - Bronx, NY

January 2007 to January 2011

### **Associates in Engineering**

Valley Forge Military Academy

2005 to 2007

### **High School Diploma**

Cornwall College - Montego Bay, Jamaica

January 1998 to January 2005

## SKILLS

COMPUTER SKILLS : Electronic Spreadsheets, Equation-Solving Software, High-Level Programming Language, CAD/CAE, Electronic Information Retrieval, Microsoft office.

## AWARDS

### **Cultural Club Scholarship, SUNY Maritime College**

February 2010

### **Horatio Alger Association Scholarship, SUNY Maritime College**

September 2007

2007-2010, scholarship winner.

### **Merit Scholarship, SUNY Maritime College**

September 2007

2007-2009, scholarship winner.

### **Mustang Scholarship, Valley Forge Military Academy**

September 2005

2005-2007, scholarship winner.

### **Dean's List and Admiral's List for Academic Excellence**

September 2007

2007-2010, winner.

### **Salutatorian of Engineering Department, Valley Forge Military Academy**

May 2007

**Provost Marshall, Military Police, Valley Forge Military Academy**

May 2006

2006-2007, 5th in command of regiment.

**Captain of Soccer Team, Valley Forge Military Academy**

September 2005

2005-2007, team captain.

**CERTIFICATIONS**

**Third Assistant Engineer**

May 2011 to May 2016

Third Assistant Engineer Unlimited Tonnage license. Certified by the United States Coast Guard.

**First Aid and Cardiopulmonary Resuscitation (CPR)**

**Environmental Protection Agency (EPA) Type I and III certification**

**GROUPS**

**EXTRACURRICULAR ACTIVITIES**

2009-2010, Regimental Executive Officer, SUNY Maritime College.

•As Regimental Executive Officer, responsibilities include acting as the major disciplinary figure for a regiment of over 1500 cadets; leading the Suitability Board in the position of Student Representative; liaison between the Regiment and the Regimental Office

2009-2010, Regimental Advisory Board, SUNY Maritime College

2008-2009, Propeller Club, SUNY Maritime College

2008-2009, Eagle Scout Fraternity, SUNY Maritime College

2007-2010, Regiment of Cadets, SUNY Maritime College

2007-2010, Cultural Club, SUNY Maritime College

2007-2008, Rifle Club, SUNY Maritime College

2007-2008, Soccer Team, Division III, SUNY Maritime College

2006-2007, Provost Regimental Military Police, Valley Forge Military Academy

2006-2007, Honor Council, Valley Forge Military Academy

2005-2007, Soccer Team, Division III, Valley Forge Military Academy