# ERSKINE MATTHEWS III

**8 Laurette Lane, Freeport, NY 11520**

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## EDUCATION

### Polytechnic Institute of New York University, Brooklyn,NY 2014

- Bachelors of Science in Electrical Engineering
- Power Engineering focus

## MEMBERSHIPS & AFFILIATIONS

- Member of the Lambda Chi Alpha fraternity
- Vice President and founder of the Lunabotics Design Team
- Member of the National Society of Black Engineers

## TECHNICAL SKILLS

- **Programming Languages:** Mat Lab, CSS, Ruby, Ruby on Rails, HTML, JAVA, JavaScript
- **Software:** Android Studio, MySQL, Eclipse, Microsoft Office, AutoCAD
- **Engineering Concepts:** Machine Logic, Programming Logic, Website Development, HVAC, Contactors, Relays, High Voltage, Low Voltage, Soldering, IP, UL, NEC

## EXPERIENCE

### Aero Conditioner (Durable Machinery Company), Brooklyn, NY 09/2013 – present

*Engineering Contractor*

- Create custom electrical designs for unique customer request which resulted in over $500,000 additional revenue for the company
- Facilitate communication with customers to reinforce confidence and allowed for the generation of lifetime clients
- Source all electrical components to save the company over $10,000 in production cost

*Electrical Engineer*

- Pioneer testing and staff training procedures to improve product reliability thus leading to a 60% reduction in the rate of product defects
- Collaborate closely with multiple engineers from Samsung, MTA, and the military to meet design requirements which resulted in a product that met all the customers' needs

### New York University, Brooklyn, NY 06/2013 – 09/2013

*Lead Engineer and Research Assistant; Internship*

- Designed an economically efficient bicycle-powered generator capable of powering 120v AC outlet, 5v USB outlet, and charging a 12v battery for underdeveloped societies.
- Created and directed entire circuit layout.
- Designed a PWM Buck Converter in CCM using fundamental power electronic principles.
- Solely responsible for providing weekly presentations to showcase the development of the project.
- Solely responsible for managing all finances, purchases and expenses and expected to keep documentation of all transactions.

### Freeport Electric Power Utility Incorporated, Freeport, NY 07/2012 – 08/2012

*Intern; Part-Time*

- Developed designs in AutoCad to aid in emergency response
- Performed inspections onsite and with SCADA networks

### MechoShade Systems, Long Island City, NY 06/2011 – 12/2011

*Intern; Full-Time*

- Programmed various networking modules
- Tested company products for safety and reliability