

# ERSKINE MATTHEWS III

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## OBJECTIVE

To acquire and apply knowledge and abilities learned in the field of electrical engineering. Seeking a position with your company in order to gain real world knowledge and experience.

## EXPERIENCE

### Durable Machinery Company LLC., Brooklyn, NY

September 2013 – November 2013

*Electrical Engineer; Full-Time*

- Applied outside knowledge to develop, design, and test various IP, UL, and NEC compliant rated products
- Designed all wiring diagrams and sized all electrical components for both high and low voltage products.
- Responsible for filling Bill Of Materials using company software and company sku numbers.
- Troubleshoot malfunctioning products.
- Contactor – Relay – PLC – Signal logic experience
- Solely responsible for creating employee schedules.
- Solely responsible for training employees in the manufacturing process of electrical systems
- Designed new test chamber and testing procedures for all future products
- Performed field inspections and repairs
- Designed and developed various HVAC systems

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

June 2013- September 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.
- Responsible for managing all peers involved and expected to delegate tasks.
- 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

July 2012 – August 2012

*Intern; Part-Time*

- Attended a business meeting involving cross-company arrangements with (LIPA) the Long Island Power Authority.
- Worked directly with the Senior Electrical Engineer and assisted with company projects.
- Implemented learned skills and knowledge involving international voltage safety procedures.
- Created designs using the AutoCAD software program and reported to the Senior Electrical Engineer.
- Studied and mastered Emergency Blackout Procedures.
- Responsible for transferring outdated data into a digital archive.
- Monitored a SCADA (Supervisory Control and Data Acquisition) network in conjunction with RTUs (Remote Terminal Unit) in a Linux-based operating system.
- Performed field inspections and surveys of company equipment and property.

### RadioShack, Merrick, NY

June 2012 – August 2012

*Sales Associate; Part-Time*

- Utilized specialized knowledge of electrical engineering to service clients in all technical needs and concerns.
- Executed customer transactions via cash, check, and credit card.
- Performed end-of-day closing procedures, including organizing the sales floor and preparing the location to operate smoothly the next day.
- Responsible for achieving personal weekly and monthly sales goals.
- Advised customers about product selection.

### MechoShade Systems, Long Island City, NY

June 2011 – December 2011

*Intern; Full-Time*

- Solely responsible for testing and programming state-of-the-art networking modules daily.
- Packaged and shipped products to customers and international job sites.
- Maintained and stocked the labs at the New York company headquarters.
- Performed soldering of numerous circuit boards based off of diagram schematics.

## SUMMARY OF QUALIFICATIONS, MEMBERSHIPS & AFFILIATIONS

- Member of the National Society of Black Engineers.
- Member of the Lambda Chi Alpha fraternity.
- Vice President and founder of the Lunabotics Design Team.
- Highly developed interpersonal skills.
- Demonstrated achiever with exceptional knowledge of power electronics and power systems.
- All degrees, certificates and references are available upon request.

## EDUCATION

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

September 2009 – January 2014

- Major: Electrical Engineering, BS
- Focus on Power generation, transmission, distribution, regulation, and economics

### Freeport High School, Freeport, NY

September 2005 – June 2009

- Degree: Advanced Regents Honors Diploma