**ERSKINE MATTHEWS III**  **8 Laurette Lane, Freeport, NY 11520** l **Phone:** (516) 660-8103 **Email:** erskine.matthews@gmail.com

**Skills**

CAD, Ruby on Rails, Java, Contactors, Relays, Manufacturing, HVAC, Matlab, Control Systems, Android Programming, Circuit Design and Analysis, SCADA

**EXPERIENCE**

**Durable Machinery Company LLC., Brooklyn , NY September 2013 – November 2014**

*Electrical Engineer; Full-Time*

* Applied outside knowledge to develop, design, and test various IP, UL, and NEC compliant rated products
* Designed all wiring diagrams using CAD programs 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.
* Troubleshot 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* Responsible for transferring outdated data into a digital archive.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 – January2014**

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