

## EILEEN EDGERTON

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### SUMMARY OF QUALIFICATIONS

- Experience in electrical design, testing, construction and manufacturing
- High interest in power systems, power distribution and/or protection
- Capable team player, with strong communication skills and ability to meet deadlines and goals

### EDUCATION

**Bachelor of Science in Electrical Engineering**, May 2011  
North Carolina State University, Raleigh, NC

Overall GPA: 3.02  
Passed FE Exam, October 2010

#### Senior Design Project: Solar Powered Charging Station

- Built a solar powered charging station to charge a battery bank
- Programmed LC3 Microcontroller and cache memory using Verilog and Quartus II
- Built a power supply converting 120 VAC to 12 VDC, and a comparator using an operational amplifier, diodes, and a buzzer
- Assembled a vending machine using logical operators, gates, inverters, and LEDs

#### Related Courses

Power System Protection  
Power Systems Analysis

Electromagnetic Fields  
Engineering Statics

Elements of Control  
Solidworks

### TECHNICAL SKILLS

AutoCAD, AutoCAD Electrical, AutoCAD LT, Verilog, LC-3, PSpice, Java, Matlab, Adobe Acrobat, Adobe Photoshop, SAP, Html, C, C++, Dreamweaver, Linux, Cygwin, Windows, Microsoft Office

### EXPERIENCE

#### Engineering Intern, MC Dean, Dulles, VA

May 2010 – August 2010

- Coordinated electrical design changes between Project Engineer and Project Managers for three separate design-build projects in the Washington, DC area
  - Attended Key Project Review, Design, and Pre-Kickoff Meetings
  - Completed site visits, site walk-throughs and troubleshooting
  - Formulated Bill of Materials, Purchase Orders, and Operation Manuals
  - Filed and acquired Electrical Permits
- Developed solar panel array and wind turbine layouts

#### Electrical Engineering Intern, Eaton Corporation, Selma, NC

May 2009 - August 2009

- Prepared components and assembled them into Auxiliary Power Generator (APG) units.
- Ran tests on APG units and wrote test reports.
- Reviewed part lists and drawings in AutoCAD to ensure ROHS compliancy.

#### Cashier/Bagger/Produce Worker, Harris Teeter, Raleigh, NC

December 2008 - present

- Operated cash register to total customer purchases, received payment, and made change.
- Bagged groceries and assisted customers.
- Stocked produce, cleaned the department, and helped close the department.

### ACTIVITIES AND INTERESTS

Institute of Electrical and Electronics Engineers (IEEE)  
North Carolina State University Marching Band

NCSU Underwater Robotics Club  
Service Raleigh volunteer

Interests: Computer software/hardware and build/rebuilding of PC's, building and modifying of small electronics (music related). Softball, racquetball, running and music.