

# ERIC LAWSON

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## OBJECTIVE

An entry-level mechanical engineering position where leadership, creativity, and a hands-on approach to solving complex technical challenges will be valued.

## EDUCATION

**North Carolina State University**, Raleigh, NC

B.S. in Mechanical Engineering, May 2014

Minor in Graphic Communications

3.25/4.00 GPA

**Ground-based Radar Access Door**, sponsored by Northrop Grumman

Held position of design engineer and welder for senior design project. Designed a door array to protect internal components of system. Selected materials to meet structural, EMI and weather shielding requirements.

Constructed and tested a fully functioning prototype.

## EXPERIENCE

**Institute for Maintenance Science & Technology (IMST)**, Raleigh, NC

Research Assistant, May 2013-present

- Provide technical assistance to engineers solving materials-related problems, under the guidance of Dr. Jerome J. Cuomo, Distinguished Research Professor.
- Contribute to three major projects: e-beam free form fabrication (NAVAIR), carbon fiber reclamation (Boeing), and wireless crack detection in aircraft (US Military).
- Plan experimental procedures, research and procure materials needed to carry out experiments.
- Participate in weekly staff meetings to discuss the status of projects.
- Learned the importance of a multidisciplinary approach to solving research problems.

**Advanced Energy Corporation**, Raleigh, NC

Engineering Intern, Summer 2012

- Ran motor testing for efficiency and compliance with ePAct regulations.
- Interpreted results and verified test accuracy.
- Used Excel and database software for data logging and analysis.
- Wrote reports and prepared presentations.
- Gained insights into the role of a nonprofit in evaluating, testing, and providing unbiased solutions to challenges that affect motor applications.

**North Carolina State University Housing**, Raleigh, NC

Resident Assistant, August 2011-May 2012

- Developed leadership skills by overseeing 22 residents in freshman dorm.
- Created monthly workshops on topics related to personal, academic, and professional development.
- Enforced University policies, mediated conflicts, and suggested positive solutions.

**Lawsons Electric**, Raleigh, NC, Electricians Assistant, Summer 2010

**Landscaping Business**, Raleigh, NC, Owner, May 2007-December 2009

## COMPUTERS

SolidWorks, AutoCAD, MATLAB, Maple, Fortran

## LEADERSHIP & ACTIVITIES

Eagle Scout

ASME, Vice President

College of Engineering, Ambassador

Undergraduate Tutorial Center, Physics Tutor

Habitat for Humanity

Mission trip to Honduras

Varsity Baseball (H.S.), Co-captain

Avid Golfer