

# Jacob A. Jay

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## OBJECTIVE

Obtain an entry-level full-time engineering position related to energy and/or HVAC.

## EDUCATION

**North Carolina State University**, Raleigh, NC  
B.S. in Mechanical Engineering (Expected May 2018)  
GPA: 3.815

## WORK EXPERIENCE

**Student Engineer** September 2016 – Present  
*NCSU Industrial Assessment Center, Raleigh, NC*

- ◇ Assessing small and mid-size manufacturing facilities, finding ways to save energy and increase productivity.
- ◇ Cultivating an understanding of common forms of energy waste and the most effective programs to reduce energy costs.
- ◇ Gaining experience with diverse industrial facilities.

**Engineering Intern (IS-OE)** May 2016 – August 2016  
*Eaton Corporation, Forest City, NC*

- ◇ Implemented Standard Work for a manufacturing process relating to hydraulic hose.
- ◇ Managed a continuous improvement project that resulted in a \$7,000 annual cost reduction and achieved first place in an annual CI competition for the Hydraulics Division in North America.
- ◇ Exhibited group teamwork skills in a formal workplace and learned how to create solutions that meet the needs of all parties involved.

**NC State Steward** August 2015 – December 2017  
*North Carolina State University Office of Sustainability (Un-Paid), Raleigh, NC*

- ◇ Promoting a vision of sustainability on campus.
- ◇ Acting as an ambassador between the student body and the Office of Sustainability.
- ◇ Working within the Stewards' energy group to help bring knowledge about North Carolina State University's clean energy and energy saving initiatives to the student body, as well as brainstorm and implement our own initiatives.

## INVOLVEMENT, ACTIVITIES & ACCOMPLISHMENTS

- ◇ Dean's List (7 Semesters)
- ◇ American Society of Heating, Refrigerating and Air-Conditioning Engineers
- ◇ Accepted into University Honors Program
- ◇ Engineering Village Member (2 Years)

## RELEVANT COURSEWORK

- ◇ Air Conditioning
- ◇ Energy Conservation in Industry
- ◇ Heat Transfer Fundamentals
- ◇ Design of Thermal Systems
- ◇ Additional Coursework in Sustainable Energy and Economics

## SKILLS

- ◇ Proficient with MATLAB, Solidworks, and Microsoft Office
- ◇ CAD experience (Solidworks and ProgeCAD)
- ◇ Familiar with R and SAS
- ◇ Intermediate Spanish Fluency
- ◇ Experience Working on Teams
- ◇ Excellent Oral and Written Communication Skills