

TAYLOR ATKINS

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SUMMARY

- Engineer-in-training with extensive experience in leading energy audits in industrial and commercial buildings.

EDUCATION

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING | NORTH CAROLINA STATE UNIVERSITY

MAY 2015

- Overall : 3.778 / 4.000 GPA, Major : 3.820/4.000, Dean's List Spring 2013, Fall 2013, Spring 2014, and Fall 2014
- Related coursework: Advanced Air Conditioning, MATLAB, Thermodynamics I and II, Graduate Heat Transfer, Advanced Energy Conservation in Industry, Mechanical Design Engineering, Design Thermal System, Communication for Engineers, Senior Design, Control Systems, Controls Lab
- Association of Energy Engineers World Energy Engineering Congress Scholar 2014, James and Mozelle Thompson Memorial Scholarship 2013
- President of North Carolina State University Student Chapter of American Society of Heating, Refrigerating, and Air-Conditioning Engineers 2015

WORK EXPERIENCE

LEAD STUDENT ENGINEER/RESEARCH ASSISTANT | INDUSTRIAL ASSESSMENT CENTER AT NCSU | RALEIGH, NC

2013-CURRENT

- Audited and inspected over 40 diverse industrial and commercial small to medium sized facilities in NC, SC, and VA to examine and collect data regarding various machinery and equipment including, but not limited to, chillers, HVAC equipment, air compressors, boilers, heat exchangers, cooling towers and lighting. Write technical reports and produce spreadsheet tools for future recommendations.
- Facility types include chemical, furniture, electrical, automotive, food processing, boat construction, filters, precast concrete, plywood and more.
- Recommendations regarding economizers, cooling towers, thermal storage, water/air cooled chillers, de-super heater, steam traps, insulation, heat recovery, motors, peak shaving, compressor pressure, waste heat, air leaks, VFD/VSD, compressor controls, LED, CFL and occupancy sensors
- Analyze electricity, propane, natural gas, and oil usage and costs using rate schedules to determine opportunity for monetary and energy savings.
- Teacher's Assistant for MAE-589 Energy Conservation in Industry, Fall 2013 and Fall 2014.

PROPERTY AND LEASING MANAGER | PRIVATE PROPERTY MANAGEMENT | CARY, NC

2010-CURRENT

- Find high quality tenants using local marketing, online tools, open houses and networking contacts.
- Negotiate and prepare leases, screen applicants using background and credit checks, maintain expense, revenue, deposits and other accounts.
- Perform wide range of repairs and maintenance on all aspects of multi-family property.

MANAGER/DELIVERY DRIVER | PAPA JOHNS | CARY, NC

2007-2013

- Recruited, hired, retained, trained, scheduled, communicated and managed a top level team of up to 25 employees on a continuous basis.
- Designed and managed an efficient production line of employees with specific skillsets to optimize labor and materials expenditures.
- Ordered and tracked resources for varying product mixes and compared them to projections using weekly, monthly and yearly budgets.
- Handled many types of customer and employee opportunities using appropriate conflict resolution techniques for entire store level.

SKILLS & PROJECTS

- Fundamentals of Compressed Air Systems and Advanced Management of Compressed Air Systems Department of Energy course, October 2013
- Town of Cary comprehensive electric rate schedule review project including over 200 accounts of varying rate schedules
- Experienced in programming MATLAB and Simulink for many courses and projects
- Passed Fundamental of Engineering Exam July 2014, Attended World Energy Engineering Congress October 2014
- Carrier Hourly Analysis Program (HAP) to model building loads, size equipment and set baseline energy use estimates
- Experience with: Solidworks, ANSYS, Orgsync
- Intramural Sports: Wallyball, Beach Volleyball, Softball, Soccer, Basketball
- Proficiency in use of Microsoft Excel, Word, and Microsoft Office Suite Brief experience with VBA and Macros
- eQuest and HVAC2 Building load energy modeling program using typical meteorological year data, HOBOWare data logger analysis
- Experience with RSMMeans Cost Data Analysis