

# State M. Engineer

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## EDUCATION

**B.S. Mechanical Engineering** | North Carolina State University, Raleigh, NC Anticipated May 20XX  
Minor in Graphics Communication | **Cumulative GPA: 3.75**  
Honors/Scholars Program | Dean's List all semesters  
**Relevant Coursework:** Dynamics, Heat Transfer Fundamentals, Solid Mechanics, Thermodynamics II,  
Principles of Electrical Engineering, Intro to Mechanical Design

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## WORK EXPERIENCE

**Resident Advisor** | North Carolina State University Housing | Raleigh, NC Oct 20XX - Present

- Developed a residential community and enhanced educational development for residents using social media and in depth one on one interactions
- Responded to crises, incidents, and emergencies with an ethic of care and completed incident reports to ensure resident safety and wellbeing

**Project Engineering Intern** | WestRock | Roanoke Rapids, NC May 20XX - Aug 20XX

- Undertook multiple \$100k projects using the front-end loading project engineering method and developed an understanding of the engineering design process
- Produced drawings in and taught co-workers AutoCAD for machined parts and structures
- Technically communicated with contractors and engineering firms to procure quotes and services

**Structures Team Member** | SolarPack (NC State University Club) | Raleigh, NC Aug 20XX - May 20XX

- Designed the chassis and roll cage of a solar power vehicle using Fusion 360 and Finite Element Analysis
- Collaborated and shared ideas with team members on material, structure, and design solutions

**Lifeguard/Manager** | Aquatech Pool Management | Charlotte, NC Apr 20XX - Aug 20XX

- Managed a lifeguard staff of 12 employees and maintained pool safety at a local pool; promoted multiple times
- Maintained pool chemistry and operated a pump room for 100% safe operations

## PROJECTS

### **Rotational Launcher Project**

- Designed, mathematically modeled in MATLAB, drafted in SolidWorks, and built a device that launched a ball at a given distance based on initial parameters with an accuracy of 90%

### **Pump Troubleshooting Project**

- Utilized flow meters, power usage and pump charts and diagnosed potential problems with an underperforming pump and improved efficiency by conserving water that was otherwise being sent to overflow
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## SKILLS

SolidWorks, Fusion 360, AutoCAD, MATLAB, JDE, Microsoft Projects, LabView

## CERTIFICATIONS

OSHA 10-Hour General Industry Course, Lean Six-Sigma White Belt, CSWA in SolidWorks

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## CAMPUS INVOLVEMENT

**Vice President** | NC State University Unicycle Club | Raleigh, NC Nov 20XX - Present

- Organize weekly group activities and aid in the handling of team funds and logistics
- Recruit, coach, and support 30 club members yearly