Andrew Steinl

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Education

North Carolina State University, Raleigh, NC **Expected May 2027**
B.S. Mechanical Engineering, Minor in Computer Programming GPA: 3.99
Relevant Coursework: Engineering Statics, Dynamic, Thermal-Fluid Science, Solid Mechanics, Fluid Mechanics, Fundamentals of Vibration, Strength of Mechanical Components, Heat Transfer Fundamentals, Mechanical Properties of Structural Materials, Principles of Electrical Engineering

Technical Skills

- **Computer Programming:** C++, Java, MATLAB
- **CAD & Modeling:** SolidWorks, AutoCAD, Revit

Work Experience

Engineering Intern | RapidShape, Raleigh, NC **Feb 2025 – Aug 2025**

- Remotely updated machine Light Engine, Operating System, and LabVIEW using TeamViewer
- Troubleshot and repaired 3D resin printers by isolating and replacing malfunctioning hardware
- Managed repair room inventory and logged incoming parts using Excel
- Analyzed acoustic data and conducted iterative testing to identify and isolate crunching noise in post-processing devices
- Designed and tested SolidWorks prototypes to reduce measured sound output by 44% while maintaining functionality

STEM Camp Coordinator | Hamilton Lakes, Greensboro, NC **May 2021 – Aug 2022**

- Created and ran STEM-based summer camps for groups of 20-30 youth to promote problem-solving and teamwork
- Planned and coordinated lab experiments and educational games to maintain a structured, engaging program

Campus Involvement

Volunteer | NC State Habitat for Humanity, Raleigh, NC **Aug 2025 – Present**

- Completed housing construction projects to support affordable housing initiatives
- Worked alongside volunteers and site leaders to support organized and efficient build day operations

Member | Themed Entertainment Association at NC State, Raleigh, NC **Aug 2025 – Present**

- Developed conceptual themed ride and queue designs for amusement parks
- Explored themed entertainment industry practices and guest experience design principles

Projects

Electric Chainsaw Project | Intro to Mechanical Engineering Design **Feb 2025**

- Diagnosed mechanical failure in an electric chainsaw by identifying missing component and its functional role
- Measured component dimensions and designed a replacement part in SolidWorks to restore operation

Electromechanical Pinball Machine | NCSU First-Year Design Day **Apr 2023**

- Designed and built a pinball machine featuring electrical bumpers, scoring circuitry, and mechanical components for NC State's First-Year Engineering Design Day competition
- Earned 2nd place in the First-Year Engineering Design Day arcade machine category

Honors and Achievements

Mechanical Engineering Honors Program **Aug 2025 – Present**
Eagle Scout Award with Bronze Eagle Palm **Jul 2020 – Aug 2020**