

Samuel Nathan Ray-Alverson

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Objective: Acquire an engineering internship or co-op position for Summer 2022 that introduces me to engineering as a career and allows me to apply my technical knowledge.

Education:

B.S. Mechanical Engineering

Computer Programming Minor

North Carolina State University, Raleigh, NC

GPA: 3.59

Anticipated Graduation: December 2023

Relevant Courses:

Statics, Dynamics, Thermodynamics I & II, Solid Mechanics, MATLAB, Discrete Mathematics, Software Development Fundamentals (Intermediate Java), C and Software Tools, Principles of Electrical Engineering.

Skills:

- **Software:** Solidworks, Fusion 360, MATLAB, Java, C, Arduino, Familiar with test-driven development.
- **Machines:** 3D Printing, Soldering, X-Carve CNC, Mill, Drill Press, Band Saw, Table Saw, Miter Saw.

Employment:

Instructor, Zaniac Learning Center, Asheville NC

June 2017 - August 2017

- Worked part-time (about 20-30 hours per week) as a teacher at Zaniac, a STEM-based summer program for students in grades K-8.
- Taught week-long classes for up to eight students, on various topics such as robotics, chess, and the science of Harry Potter. Wrote daily emails to parents explaining what their child learned.

Soccer Referee, Henderson County Parks and Recreation:

January 2015 - May 2017

- Certified soccer referee, worked 6 hours a week, 20 weeks per year.
- Refereed games for youth ages 5-16 at the recreation, academy, challenge, and classic levels.
- Multitasked by keeping the coaches and parents under control while also managing the game.

Relevant Projects:

Custom Lamp Project

January 2021

- Designed and 3D printed an Arduino-controlled, Google Home activated, LED lamp.

Leadership and Organizations:

Vice President of Operations, *FIRST* Alumni Association at NC State

August 2019 - Present

- Served on the Robot in 3 Days Planning Committee as the Schedule and Team Strategy Officer.
- Designed a competition-ready robot from scratch, documented progress on the club's website and YouTube channel, and created instructional content for *FIRST* Robotics Teams.
- Presented and explained the team's progress as Live-Stream Host for 2021 Robot in 3 Days event.

STEM Coach, Goodnight Scholars Program

August 2020 - Present

- Visit elementary schools and after-school programs to teach STEM lessons to students.
- Create instructional videos to get elementary school students excited about STEM.
- Work with a team to create videos and make the videos inspirational.

Member, Research and Development Club

January 2021 - August 2021

- Utilize the generative design process to custom build a CNC mill based.
- Research parts and contact vendors to discuss specs of parts we may want to use on our machine.

Teammate, Intramural Soccer

August 2019- Present

- Compete in weekly matches against other NCSU students.

Member, Pickleball Club at NCSU

August 2021 - Present

- Play Pickleball 1-2 times per week with other members of the club.

Honors and Achievements:

- **Goodnight Scholars Class of 2023:** Full scholarship for students from North Carolina studying STEM. The program helps students with their personal, professional and academic development.
- **Dean's List:** Fall Semester 2019, Fall Semester 2020

References Available Upon Request