

Collin T. Nelson

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SUMMARY

Practical third-year mechanical engineering student with robotics, additive manufacturing, and traditional manufacturing experience. Passionate about engineering with several large individual and group projects completed, including designing and building a large format desktop 3D printer and over 1000 hours designing and fabricating competition robots for the FIRST Robotics Competition.

EDUCATION

North Carolina State University, Raleigh, NC

Graduation: May 2022

BS Mechanical Engineering

GPA: 4.0/4.0

Relevant Coursework: Engineering Solid Mechanics, Engineering Thermodynamics, Engineering Fluid Mechanics, Engineering Dynamics of Machines

TECHNICAL SKILLS: Solidworks, Matlab, Autodesk Inventor, Fusion 360, CNC machining, 3D Printing, Robotics, Prototyping, Debugging, Engineering Design Process, Intermediate Java, Basic Python

EXPERIENCE

Undergraduate Researcher, Center for Additive Manufacturing and Logistics

October 2019 - Present

- Operate Haas CNC to finish 3D printed copper, stainless steel, and titanium parts and make aluminum and steel machine components and fixtures, including a batch of 300 printed tensile and conductivity samples

Sortation Associate, Amazon Logistics, Sterling, VA

June - August 2019

- Sorted Amazon packages in a fast-paced environment, consistently achieving high sort rate and sort quality

Ecological Personal Rapid Transit

October 2018 - June 2019

- Part of a team fabricating autonomous, electric personal rapid transit vehicles for a startup on campus

PROJECTS

Robot in Three Days, FIRST Alumni Association

December-January 2019, 2020

- Part of a team that planned and executed a three-day robot build to share our knowledge and experience with high school teams competing to solve the same challenge in six weeks

Engineering Application Club

October 2019 - May 2020

- Designing an industrial CNC as part of an interdisciplinary team

ASME Innovative Additive Manufacturing 3D Challenge

September 2019 - March 2020

- Designed and 3D printed a drone using principles of design for manufacturability to race against other collegiate teams in picking up and transporting cargo around a gated course

ASME Student Design Competition

September 2019 - March 2020

- Designed a robot, as part of a team, to build a paper tower judged for height, strength, and speed

FDM 3D Printer

April 2016 - June 2018

- Independently designed and built a 3D printer using self-taught engineering concepts, gaining experience with rapid prototyping, electronics, machining, and thermoplastics

LEADERSHIP

Build Lead, Robot in Three Days, FIRST Alumni Association

December 2020 - February 2021

- Lead the team that analysed the challenge presented, designed a robot to efficiently address each facet of the challenge, built the robot, and iteratively improved it coordinating with off-site programmers, in three days.

Quartermaster, Robot in Three Days, FIRST Alumni Association

October 2020 -

February 2021

- Responsible for identifying and ordering the materials and tools required ahead of the Robot in Three Days event, as well as borrowing more expensive items and tracking where everything was across multiple locations throughout the event.

Officer/Treasurer, FIRST Alumni Association

May 2020 - Present

- Work with other leaders to apply for grants, plan and execute fundraisers, create a budget, and track purchases, as well as working to develop more opportunities to help elementary through high school FIRST robotics teams advance their technical knowledge, skills, and outreach programs.

Fabrication Lead and Student Mentor, FIRST Robotics

May 2015 - June 2018

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- Led fellow students to assemble 4 competition robots in a time-constrained environment
- Taught and mentored younger students as they developed technical skills and knowledge

Eagle Scout Service Project

February - September, 2017

- Planned, organized, and executed the fundraising for and construction of a 100-square-foot, \$2200 outbuilding for my high school's football concessions

NOTES:

Header

Summary

2-4 sentences, highlights biggest achievements, mentions profession, 1-2 top skills

Summarize career background, include specific numbers and data

Mention:

Your experience summary ("e.g. Facebook marketer with 5+ years of experience with...")

Your general experience (e.g. "Experienced in managing 10+ Facebook ad accounts ...")

Your top achievement (e.g. "Managed over 00,000 in marketing budget over several accounts")

Achievements more important than responsibilities, add numeric measurements

Make sure what I can do for the company I'm applying to is included here

Craft this straight from the job requirements every time

The summary should be 50 words or less and should highlight the main experiences or qualifications relevant to the job description. Offering concrete examples of your past achievements is a popular strategy as these are more likely to entice recruiters to learn more about you.

Education

Technical Skills

Projects

Experience

Leadership

Honors and Organizations

RESUME REVIEW: code 7501

<https://www.zipjob.com/visitors/verification/ctnn2000@gmail.com1582210725>