# Cole Malinchock

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Interested in a robotic engineering internship to gain more experience in software development and electrical system design with robotic systems.

## EDUCATION

**North Carolina State University |** Raleigh, NC                    Anticipated Graduation May 2026

- B.S. Mechanical Engineering; Minor Computer Science; GPA: 4.0/4.0

**Park Scholarship |** Class of 2026 | NCSU                    Aug. 2022

- Merit based, 4 year scholarship for leadership, character, scholarship, service

## WORK EXPERIENCES

**Self Driving Car Undergraduate Research |** Lab Manager **|** NCSU          Sept. 2022 - Present

- Designed and 3D printed attachments for hardware using Solidworks
- Developed lane detection and motor actuation software with Python, ROS2, and C++

**Halo Gravity-Traction Undergraduate Research |** Assistant | NCSU          Aug. 2023 - Present

- Collaborated with UNC Children's Hospital to design and test the first documented Halo Gravity-Traction system that utilizes a stepper motor, Raspberry Pi, and mobile app

**Cancer Treatment Undergraduate Research |** Assistant **|** NCSU          Sept. 2022 - May 2023

- Fabricated models of blood vessels in livers using ABS plastic and silicone

## SKILLS AND EXPERIENCES

**Cycling Club at NC State |** Co-President | NCSU                    June 2023 - Present

- Maintain the organization for one of the largest clubs at NCSU and organize collegiate bike races

**FIRST Robotics World Competition |** Leader **|** Chapel Hill High School          May 2022

- Constructed a robot that competed in the World Championship for FIRST Robotics

**Technical Skills**

- Solidworks, Autodesk Inventor, KiCAD, 3D Printing, MIG Welding
- Python, Java, ROS2, Arduino, Matlab, Simulink, C++, Terminal, Android Studio
- Windows, Google Sheets, Excel, Adobe softwares

## VOLUNTEER ENGAGEMENTS

**BikeLoud! |** Leader                    June 2020 and June 2021

- Biked 5,000+ miles across the United States and up the East coast to raise +$70,000 for the Be Loud! Sophie Foundation

**PORCH, Hunger Relief |** Volunteer **|** Chapel Hill, NC                    June 2016 - July 2022

- Coordinated over +3,000 pounds of food donations to hunger relief program

**Feed the Pack, Food Pantry |** Volunteer **|** NCSU                    Aug. 2022 - Aug. 2023

- Welcomed shoppers and restocked shelves throughout the shifts