# Reece M. Dobro

rmdobro@ncsu.edu | Waxhaw, NC | (980)-347-6003 | www.linkedin.com/in/reece-dobro

## Objective

Motivated Computer and Electrical Engineering student at North Carolina State University, seeking a future internship. Skilled in Python programming, 3, technical documentation, and CAD software. I aim to contribute my hands-on experience in systems management, device troubleshooting, and efficient communication to support innovative work and collaborate in dynamic team environments.

## Education

**NORTH CAROLINA STATE UNIVERSITY**                                             **EXP.  MAY 2028**

Bachelor of Science, Computer Engineering, Electrical Engineering |  GPA: 4.00 | Dean's List 2024

**MARVIN RIDGE HIGH SCHOOL**                                        **AUG 2020 – JUNE 2024**

GPA: 4.00/4.00 Unweighted | 4.5/5.0 Weighted

## Relevant Experience

**LOW VOLTAGE TECHNICIAN | NC STATE SOLAR PACK**                    **AUG 2024 - PRESENT**

- Assisted with wiring, troubleshooting, and optimizing electrical connections for various systems of a solar powered car
- Configured and reprogrammed custom PCBs for the car's power management system, optimizing energy distribution
- Collaborated with mechanical engineers to integrate electrical and mechanical systems

**PARTICIPANT | NC STATE IEEE OPEN PROJECT SPACE**                  **AUG 2024 - PRESENT**

- Acquired foundational electrical skills by designing circuits and programming Arduino microcontrollers
- Integrated sensors and transceivers, processing their data and communicating it between devices in hands-on mini projects

**TEACHER ASSISTANT | MARVIN RIDGE HIGH SCHOOL DRAFTING**             **AUG 2023 - JUNE 2024**

- Repaired and maintained four 3D printers, collectively valued at $2,000
- Designed and implemented a comprehensive end-of-year project that integrated 3D modeling, structural engineering, and pneumatics
- Utilized ABS, PLA, and TPU materials while adhering to industry-standard safety protocols

**VICE PRESIDENT | MARVIN RIDGE HIGH SCHOOL ROBOTIC CLUB**         **SEPT 2022 - JUNE 2024**

- Constructed and wired advanced robots that accomplished complex tasks in a competition, such as launching and sorting objects
- Lead and mentored 7 new members in robotics and the design process
- Built 2 robots that won in a single elimination tournament of over 50 teams and 400 people
- Troubleshooted complex issues involving power systems, sensor calibration, and software bugs to ensure optimal robot performance

## Certifications

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|---|---|---|
| Adobe Illustrator | Adobe Photoshop | Python MTA |
| Autodesk AutoCAD | Autodesk Inventor | WorkKeys Platinum Certification |

## Skills

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|---|---|---|
| 3D Modeling and Scanning | Technical Documentation | Microcontroller Programming |
| Python Programming | Computer-Aided Design | Android System Repair |
| HTML / CSS | Windows and Linux Support | Legacy Technology Operations |

## Honors and Awards

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|---|---|
| 1st Prize, NCSU 3D Modeling Engineering Village Contest | *NC State Engineering Village* | December 2024 |
| Career and Technical Education Student of the Year | *Marvin Ridge High School* | May 2024 |
| Collins Aerospace Robotics Scholarship Recipient | *Marvin Ridge High School* | May 2024 |
| Union Power Cooperative Scholarship Recipient | *Marvin Ridge High School* | May 2024 |
| CAD Design Award Winner | *Marvin Ridge High School* | April 2024 |
| Spring Robotics Tournament Champion | *Union County Public Schools* | March 2024 |
| Academic Booster Club Award for Robotics | *Marvin Ridge High School* | May 2023 |
| Spring Robotics Tournament Champion | *Union County Public Schools* | April 2023 |
| South Charlotte Information Technology Award | *Future Business Leaders of America* | March 2023 |