

Nicholas Woolsey

Mechanical engineer, Electrical engineer

Motivated student pursuing a degree in Mechanical Engineering. Diligent and dedicated to achieving excellence and consistently demonstrating exceptional drive with a positive attitude. Willingness to take on additional responsibilities to meet team goals.

WORK EXPERIENCE

Stocking and Receiving Associate

July 2018 - Present, Walmart, Lafayette, CO

- Receive and unload pallets and deliveries.
- Organize products within the warehouse and prepare them for the floor.
- Stock and merchandise products.
- Assist customers on the floor.

Robotics Workshop Leader Intern

May 2023 - August 2023, Colorado Space Grant Consortium, Boulder, CO

- Mentored college students in the fundamentals of Arduino, soldering, coding, and robotics.
- Designed, tested, and facilitated workshops and delivered presentations.
- Accumulated valuable leadership and mentor experience.

Drone Research Intern - National Science Foundation; Research Experience for Undergraduates

May 2022 - August 2022, Colorado State University, Fort Collins, CO

- Researched a modified passive bistable gripper for drone perching.
- Utilized knowledge from numerous research papers related to gripper technology.
- Implemented spring steels into multiple new designs modeled in Fusion 360 and utilizing 3D printing and Arduino-based robotics.
- Operated tensile stress instruments to gather gripper strength data.
- Presented results to professors and graduate students
- Worked full-time living on campus.
- Operated alongside graduate students.

BVSD Floorplan Contract Internship

June 2019 - July 2019, Boulder Valley School District, Lafayette, CO

- Gained familiarity with blueprints and floor layouts.
- Worked alongside industry professionals editing floorplans using CAD.

Contact

Address

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Phone

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Email

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Skills

Research and Analysis



Research Design



Proficient in C++



CAD expertise



Lathes and mills manufacturing



Certifications

2020-05

Solidworks Additive

Manufacturing Associate

2021-04

Solidworks Mechanical Design
Associate

EDUCATIONAL EXPERIENCE

NASA Community College Aerospace Scholars Alumni

- Gained insight into NASA operations and directorates.
- Created infographics and completed a simulated Mars mission.
- Collaborated with peers and presented to industry professionals.
- 1 of 230 students accepted into NCAS Mission 3 to work at a NASA facility.

NASA COSGC Robotics Challenge

- Acquired experience in wiring circuits and mastered soldering techniques.
- Utilized C++ to develop a fully autonomous obstacle avoidance system.
- Utilized CAD to create an optimized 3D-modeled rover chassis using 50% less material while maintaining structural strength.
- Received a Certificate of Achievement and top honors for robotics poster.
- Earned Best Structure Award for the rover.
- Completed all 5 Mars simulation courses at the Great Sand Dunes.
- Was a devoted member of the team spending numerous long nights working over an academic year.

EDUCATION

Bachelor of Science: Mechanical Engineering Major

Electrical Engineering Minor

August 2023 - Present, University of Colorado - Boulder

- CU Robotics RoboMaster Competition Manufacturing Team Member.
 - Collaborate with other specialized engineers.
 - Gain valuable experience operating lathes and 3-axis mills.
 - Manufacture complex parts to be used in a professional competition.

Mechanical Engineering

August 2020 - December 2023, Front Range Community College

- Member of Phi Theta Kappa Honor Society
- 3.56 GPA
- Received Dean's List award last 4 semesters

High School Diploma

August 2016 - May 2020, Centaurus High School

- 4 years of Engineering courses
- Awarded Certificate of Academic Excellence 2018-19
- Awarded Certificate of Outstanding Achievement 2016-17 and 2018-19
- Awarded Cum Laude Honors

Interests

Playing the acoustic guitar

Calisthenics

Alternative music

3D printing