



EDUCATION

University of Pennsylvania
M.S.E. Robotics - May 2023

NC State University Raleigh, NC
B.S. Mechanical Engineering - May 2020

- Summa Cum Laude (**3.864 GPA**)
- Minor: *Art & Design*

SKILLS

SOFTWARE

SOLIDWORKS	Python C	HTML/CSS
MATLAB	Linux	Adobe Suite
	Some ROS	MS Office Suite
		Google Suite

Relevant Coursework & Projects

- Courses:
 - Principles of Automatic Control
 - Design of Electromechanical Systems
 - Mechatronics (MEAM 510)
 - Intro to Robotics (MEAM 520)
 - Computer Vision (CIS 581)
- Upcoming (Spring '22): *Advanced Mechatronics, Advanced Robotics*
- Advanced to finals in MEAM 520 for 7DOF robotic arm control competition relying on forward & inverse kinematics and path planning
- Created semi-autonomous mobile robot to compete in MEAM 510 competition
- NC State Engineering Entrepreneurship winning senior design venture SafeCrate"

Leadership

- Four-year Leadership Academy
- Developed and taught a curriculum to children survivors of domestic violence during a year-long service project

Art & Design

- Traditional and digital media works presented in galleries
- 3D asset creation for 3D printing, VR environments, etc. using SOLIDWORKS, Sketchup, Blender, and Unity

EXPERIENCE

Manufacturing Engineering Co-op

Intuitive Surgical

Jan 2021 - Aug 2021

- Supported the Durham, NC Process Engineering team for two consecutive co-op rotations
- Learned and performed manufacturing engineering duties in the medical device industry - including diagnosing and prescribing solutions to non-conformances, authoring manufacturing process instructions, and updating risk traceability documentation. Additionally, investigated a case of supplier variance and led a project to improve cycle time for a manufacturing operation.
- Gained proficiency in Intuitive's ERP software, document revision control system, risk traceability software, and more.

Outreach Coordinator

NCSU Sustainability Office

Jan 2018 - May 2020

- Led as Outreach and Communications Coordinator for the Sustainability Stewards student volunteer program. *Promoted from 2-year volunteer membership to internship*
- Pioneered sustainability-related initiatives in the Raleigh Community, led service events, extended outreach efforts with students and organizations

Project Lead

NCSU Engineers Without Borders

Jan 2017-May 2020

- Led a team of approximately 20 students to design and install a 7kW photovoltaic array on a school in Lower Allentown, Sierra Leone in 2018. Led both December 2018 and March 2020 trips.

Robotics Research Intern

Oregon State University

June-August 2019

- Awarded an REU position in the Collaborative Robotics and Intelligent Systems Institute at OSU
- Engaged in 10-week research program developing a fully-actuated robotic hand for use in a variety of grasping and manipulation experimental tasks. Gained experience in Python, C/C++, some ROS, troubleshooting, and electrical design

AWARDS AND HONORS

Park Scholarships Recipient

2016-2020

- Highly-selective, full merit scholarship at *NC State University* awarded on the basis of outstanding accomplishments and potential in *scholarship, leadership, service, and character*