

EDUCATION

UNC Asheville & NC State University, Asheville, NC | Jan. 2021 – Present

- Senior pursuing Joint Bachelor of Science in Engineering – Mechatronics Concentration

AB Tech Advanced Manufacturing Center, Asheville, NC | Apr. 2023 – May. 2023

- Programmed and Operated Haas Mills and Lathes

Durham Technical Community College, Durham, NC | Aug. 2018 – Dec. 2020

- Associate of Applied Science in Information Technology – Software Development
- Diploma of Information Technology – Software Development

Honor Societies:

- Phi Theta Kappa International Honor Society
- Gamma Beta Phi Honor Society

EXPERIENCE

Engineering Intern, Dodge Industrial; Weaverville, NC | Jun. 2023 – Aug. 2024

- Worked closely with Continuous Improvement and Quality Teams.
- Engineered and fabricated the Adjustable Flange Press, a custom 5-leg planetary gear tool designed to securely hold heated flanges during cooling.
- Developed and refined CAD models of babbitt displacement rubber inserts for Sleeveoil® to enable in-house production and reduce costs.
- Improved work cell efficiency by designing and fabricating custom organizational tools for machinists.
- Reviewed and documented errors in engineering drawings.
- Wrote work instructions for Sleeveoil® housing delivery to the Dodge Asheville plant.
- Taught SolidWorks and 3D printing classes to managers and engineers to enhance their design and prototyping capabilities.
- Built a palletizing program for a Fanuc CRX-10iA/L robot.

Student Supervisor, UNCA STEAM Studio; Asheville, NC; Part-Time | Jan. 2022 – Present

- Built circuits and machined parts for animals in the NC Animatronic Winter Light Show.
- Designed and fabricated a functional prototype for a spring-loaded mechanical device.
- Designed and fabricated efficiency and organizational solutions requested for the shop.
- Reviewed and revised Fusion 360 designs.
- Utilized 3D scanning technology to capture models of people for 3D printing.
- Completed shop jobs commissioned by patrons.
- Taught MIG welding.
- Produced a video tutorial for OMAX Waterjet.

Web Services Intern, NC Central University; Durham, NC | Aug. 2020 – Dec. 2020

- Produced event and announcement pages using Drupal.
- Resolved broken links using Siteimprove.
- Collaborated with a team tasked with upgrading the capabilities of a Dialogflow chatbot.
- Created web forms and updated webpage contents.

- Composed technical articles (knowledge base articles).
- Produced a virtual version of NCCU's seasonal magazine utilizing Drupal.

CERTIFICATES

- Software Development Fundamentals (Durham Tech)
- Database Programming (Durham Tech)
- Microsoft Developer (Durham Tech)
- IT Foundations (Durham Tech)
- Java Developer (Durham Tech)
- MTA JavaScript (Microsoft)
- CNC Machining 101 (AB Tech)
- Fusion 360: Design for Mechatronics (LinkedIn)

SKILLS

- Fusion 360 and SolidWorks
- MIG and TIG Welding
- Manual Machining: Mill and Lathe
- Soldering
- Prototyping
- Waterjet and Laser Cutter
- 3D Scanning and Printing
- Swift
- C and C#
- Arduino and ESP32
- MATLAB and Python
- CNC Machining: Mill, Lathe, Router
- CNC Programming: CAM and G-Code
- HTML, CSS and JavaScript
- Java
- Microsoft Office
- Adobe Photoshop and Premier Pro

EXTRACURRICULAR

Product Developer, Human Innovation's Technology; Remote | Mar. 2022 – Present

- Designed, prototyped, and iterated a rechargeable electromechanical device for smart home security.
- Developed an iOS app and firmware that utilizes Bluetooth for communication.
- Built and optimized multiple electronic component enclosures.
- Created the company website and branding materials to establish an online presence.