

SKILLS

Software:

CAD/CAM

- Autodesk AutoCAD
- Autodesk Inventor
- Autodesk Fusion360 (CAD and CAM)
- Catia V5
- Solidworks
- Mastercam
- Git

Fabrication:

Programming

- Fanuc and Yamaha ROS
- MATLAB
- PLC Programing
- NC Programming
- LabVIEW
- Unix
- Electronics

- Arc welding (GMAW, GTAW, and SMAW)
- Oxy-fuel welding and cutting
- CNC plasma arc cutting and waterjet cutting
- CNC Milling and Turning
- Rapid Prototyping
- Metal/Wood/Plastic Laser Cutting
- 3D Printing (PLA/ABS/Onyx)

EXPERIENCE

Bechtel Innovation Design Center — *Supervisor*

August 2019 - Present

- Supervisor overseeing all hot works lab and high bay operations including equipment upkeep, inventory, staffing, and space regulations.
- Developed and directed a multi-level welding program to provide Purdue students and staff instruction and access to a variety of relevant welding processes.
- Assisted in the development and implementation of a virtual machining and welding experience in response to the COVID-19 pandemic
- Taught welding, GD&T, CAD, and design skills to student members of the facility. • Assisted in developing and teaching a 100-level engineering class Projects:
- **Trusted Member Program**— Led an initiative created to provide extra resources to promising students.
- **Workshop Series**— Arranged and managed workshops for 5 separate labs in the Bechtel Center
- **Hands on Design and Fabrication Learning Community**— Managed the affiliated learning community, creating unique and engaging opportunities that enabled new students to learn important fabrication skills.
- **Boilermakery**- Received funding for and built out a small internal makerspace to enable easier access to simple prototyping equipment.

Autodesk — *Fusion360 Ambassador*

December 2021 - Present

- Worked with fellow students teaching CAD and CAM skills
- Developed higher level CAD and CAM skills in the Autodesk environment
- Encouraged efforts to get students more involved and familiar with the Fusion360 environment
- Worked with industry professionals to develop new CAD and CAM tools and processes

United States Army Reserves — *Bridge Crewmember*

October 2020 - Present

- Gained leadership and collaborative work experience.
- Worked with a diverse team to solve real-world issues in a time-effective manner.
- Faced and overcame personal physical and mental challenges.

FIRST Robotics, Team 4292 — *Captain*

December 2015 - July 2019

- Led High School team as captain for 3 years (Sophomore-Senior) and Safety Captain 2 years (Freshman-Sophomore) ○ Established and maintained leadership structure.
- Guided team to adhere to build schedule and meet stringent deadlines
- Contributed to the mechanical design of robot through the introduction and integration of innovative solutions to challenges.
- Contributed to the electrical and pneumatic system in the robot by driving the main design and assembling integrated systems.

EDUCATION

Purdue University, West Lafayette— *Robotics Engr. Technology, Mechatronics, Electrical Engr. Technology (Minor)*

July 2019 – Present

- Expected Graduation: Spring 2022
- Overall GPA: 3.898
- Credit Hours Completed: 136

Lockport Township High School, Lockport

August 2015 - June 2019

- Track and Cross-Country Team (2 years)
- German Honors Society (2 Years)
- Power Lifting Team (2 years)
- OSHA 30hr Certification- received Spring 2021
- SkillsUSA Nationals, 2nd in Engineering Design Technology- June 2019
- SkillsUSA State, 1st in Engineering Design Technology- April 2019
- SkillsUSA State, 3rd in Technical CAD- April 2018
- National Center for Women in Information Technology, Certificate of Distinction- February 2018

AWARDS & Certifications

- President and Founder of the Bechtel Center Innovators of Tomorrow
- TA for electronics and engineering courses (ECET227, ENGR103)
- Dean's List- 5 semesters
- Speech Team (2 years)
- School Newspaper (3 years)
- Robotics Team (4 years)