Adriana L. Watson

SKILLS

Software: **Fabrication:**

CAD/CAM	**Programming**	
- Autodesk AutoCAD	- Fanuc and Yamaha ROS	**-** Arc welding (GMAW, GTAW, and SMAW)
- Autodesk Inventor	- MATLAB	- Oxy-fuel welding and cutting
-Autodesk Fusion360 (CAD and CAM)	- PLC Programing	- CNC plasma arc cutting and waterjet cutting
- Catia V5	- NC Programming	- CNC Milling and Turning
- Solidworks	- LabVIEW	- Rapid Prototyping
-Mastercam	- Unix	- Metal/Wood/Plastic Laser Cutting
- Git	- C, C#	- 3D Printing (PLA/ABS/Onyx)
		- OSHA 30-Hour Certification

EXPERIENCE

Bechtel Innovation Design Center — *Supervisor*

August 2019 – May 2022

- 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.
- **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 students to get 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.

EDUCATION

Purdue University, West Lafayette — *M.S. Engineering Technology*

May 2022 - Present

- Expected Graduation: Spring 2024
- Primary Area of Study: AI Applications of Data Contextualization
- Secondary Area of Study: XR Data Visualization
- Graduate TA for ECET302 - Intro to Industrial Controllers

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

July 2019 - May 2022

- Graduated with distinction. Overall GPA: 3.85. Dean's list each semester.
- President and Founder of the Bechtel Center Innovators of Tomorrow
- TA for electronics and engineering courses (ECET227, ENGR103)