

HOPE MADISON CHAMBERS

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Skills

- 3D design and prototyping
- Working on diverse project teams
- Laser engraving, carpentry, circuitry, soldering
- SolidWorks, Autodesk Revit, and NI Multisim software

Experience

Robotics Internship Oklahoma Robotics, Oklahoma City, Oklahoma

- Assisted in the design and build of prototypes using a variety of tools such as laser cutting, CNC, Autodesk Inventor and more

Fabrication Specialist Tom Love Innovation Hub Fabrication Lab, University of Oklahoma

- Support and advise engineering and non-engineering students in creating their prototypes.
- Work individually or with a diverse team of different majors to design, prototype and implement projects
- Trained in a variety of tools including 3D printers, laser engravers, circuitry, PCB, wood working

Architectural Design Services CDBL Construction, Lawton, Oklahoma

- Worked alongside professional drafters taking written, and verbal specifications for blueprints
- Designed construction blueprints using drafting software, Autodesk Revit and SketchUp

Prototyping Design Contractor Cosmetic Specialty Labs, Lawton, Oklahoma

- Converted verbal specifications into 3D models while keeping the users experience in mind
- Designed and 3D printed bath bomb model using SolidWorks and Autodesk Inventor

Involvement and Service

Cerebral Palsy Symbiotic Robotics Research Assistant University of Oklahoma

- Robot assists babies with cerebral palsy by promoting crawling and walking movements
- Program Arduino and other microcontrollers to test and implement a variety of IMU sensors that moves the robot when specific movement of the baby's arms and legs are sensed.

STEM Club Founder/ Teacher Bishop Elementary, Lawton Oklahoma

- Founded a unique STEM club at a local Title 1 elementary school to engage young engineers in a hands-on environment with a fun custom five-week curriculum.
- Taught students about the basics of computer science with activities that include programming, robotics, and more.

Women in STEM Event Speaker and Advocate Events vary

- Giving presentations to students, teachers and community members about integrating STEM activities in the classroom, what it is like being a woman in STEM, and the importance of diversity in the work force.
- 2020 Woman in Technology Panel, 2020 College and Engineering Panel, Engineering Mentor, and more

Honors, Awards & Scholarships

2019 National Center for Women in Technology, National Winner

- Award recipients are selected based on their aptitude and aspirations in technology and computing, leadership ability, academic history, community outreach, and more.

2019 Oklahoma Mayor's Commission on the Status of Women Scholarship

- This scholarship recognizes local women who are advanced in their field and have high aspirations to break the gender gap in the work force.

2018 MakerBot Operator Expert Certification

- Certified to maintain and manage MakerBot 3D printers.

Education

The University of Oklahoma Computer Engineering B.S

- Expected Graduation May 2023