

SARAH BROWN

Computer Engineering Student

@ srb@ou.edu
sarahbrown.github.io

EDUCATION

M.S. in Electrical and Computer Engineering | B.S. in Computer Engineering | B.A. in Mathematics
University of Oklahoma 📅 Summer 2017 – Expected Graduation May 2022 📍 Norman, OK ✎ GPA: 3.97

- Study Abroad in Oxford, Summer 2018

Associates of Science **Lone Star College** 📅 May 2017 📍 Houston, TX ✎ GPA: 4.0

SKILLS

Hardware Design:	FPGA, Verilog, Altium Designer, EAGLE, KiCad, Multisim
Platforms:	ESP32, Arduino, Raspberry Pi, mbed, Linux, Windows
Programming:	Python, Java, R, Matlab, C, C++, OpenCV
Other:	Blender, Git

WORK EXPERIENCE

University of Oklahoma **Teaching Assistant** 📅 Fall 2020 - Present 📍 Houston, TX

- Worked remotely as a teaching assistant for a digital design course in the ECE department
- Developed lab code for ESP32 modules so students could complete lab remotely and supervised lab sections while providing debugging help

Gecko Robotics **Electrical Engineering Intern** 📅 Summer 2020 📍 Houston, TX

- Worked remotely as an electrical engineering intern at Gecko Robotics
- Developed methods to contactlessly detect defects on tank floors while learning about laser scanning and computer vision

INVOLVEMENT

Sooner Competitive Robotics **President (April 2020 – Present), Secretary (April 2019 – April 2020)**

- Leader in an organization of 30+ students in the mission of building winning robots
- Organized events on campus for outreach and recruiting

Mercury Team Captain (May 2019 – March 2020)

- Lead a team of 20 students on different subteams toward competing in a telecommunications robotics challenge
- Worked with members to develop autonomous subroutines
- Implemented technology to correctly identify an object emitting a 10 Hz pulse among four different objects

Mercury Electrical Subteam Lead (August 2018 – April 2019)

- Designed and implemented the necessary electronic subsystems for a competitive robot
- Constructed electrical systems architecture of ground based mobile robot
- Scored 2nd highest in competition

Women in Electrical and Computer Engineering **President (2019 – Present), Vice President (April 2018 – 2019)**

- Planned activities and events for students in the college of Electrical and Computer Engineering
- Focused on outreach to and retainment of women within these majors and taught skills necessary to excel in classes

HAM Radio 2012 – Present

- Earned highest level HAM Radio license (Extra)
- Ran the Get On The Air station which introduces newcomers to HAM radio

PROJECTS

Honors Research Internship **Summer 2020 – Present**

- Worked with a professor on search and research robotics research
- Focused on generating a current state of the art report and developing a project proposal for a multi-student semester+ project

HONORS & AWARDS

🏆 ECE Outstanding Leadership Award 🏆 ECE Distinguished Mentor Award
🏆 Girl Scouts Bronze, Silver, and Gold Awards 🏆 National Merit Scholarship