

# SARAH BROWN

Computer Engineering Student

@ srb@ou.edu  
sarahbrown.github.io

## EDUCATION

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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

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

## WORK EXPERIENCE

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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

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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

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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

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