

# SARAH DICKERSON

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## EDUCATION

**The University of Texas at Austin**  
Expected Graduation: May 2024  
B.S., Electrical and Computer Engineering  
Concentration: Software Engineering  
Minor in Business Fundamentals  
GPA: 3.7/4.0

## SKILLS

Java, C/C++, Python, HTML/CSS, JavaScript, ReactJS, Flask, MongoDB, Angular, Git, Linux, Agile, JIRA, Assembly

## RELEVANT COURSEWORK

Algorithms, Software Design I & II, Software Engineering and Design Lab, Concurrent & Distributed Systems, Digital Logic Design, Introduction to Embedded Systems, Data Science Lab (IP)

## RELEVANT EXPERIENCE

### Work Experience

**Aristocrat** | *R&D Software Engineering Intern*; Austin, TX Aug 2022 - Present

- Developed an Angular POC loyalty app to enable NFC communication from mobile wallet passes to EGMs.
- Researched current and future market NFC applications and presented potential use cases of interest.

**Poly (Acquired by HP in November 2022)** | *Video Software Engineering Intern*; Austin, TX Jun 2022 - Aug 2022

- Designed a Windows app to stream and record video synchronously from a video conferencing camera over IP connection using internal company API's, Visual Studio 2022, GStreamer, Qt, and C++.

### Academic Experience

**Texas Rocket Engineering Lab** | *Flight Software Engineer*; Austin, TX Feb 2021 - Present

- Develop platform level flight software in C++ for student-manufactured liquid-propelled rocket.
- Interface with 4 sbRIO controllers directly and via SSH.

**The University of Texas at Austin** | *Undergraduate Teaching Assistant*; Austin, TX Jan 2022 - Present

- Lead weekly recitation session for 18 honors students on beginner to intermediate C/C++ topics, data structures, recursion, Big O notation, Linux, and more.
- Hold weekly office hours to answer student questions, explain concepts further, and run exam reviews.

**Texas Guadalupe** | *Embedded Systems Engineer*; Austin, TX September 2022 - Present

- Creating C/C++ platform codebase for electrically propelled prototype hyperloop pod.

## PROJECTS

**Hardware-as-a-Service (HaaS) Website** | ReactJS, Python, Flask, MongoDB Feb 2023 - Present

- Developing a HaaS website with user and project database management that allows users to login and checkout hardware associated with a certain project; in collaboration with 3 other teammates.

**Android Weather Application** | Java May 2022

- Created a weather app to display current weather, hourly, and daily forecasts fetched from an online API.

**Chat Room Terminal Application** | Java April 2022

- Utilized Java Socket Programming to develop a TCP server and client simple chat room application that supports 10+ clients.

**Fruit Masters** | C/C++, Assembly May 2021

- Designed a physical 80s style arcade game embedded system with a partner.
- Built an interface using a TM4C that communicated with the software to display the game and accept inputs via buttons and a slide pot.

## LEADERSHIP EXPERIENCE AND ACTIVITIES

**Women in Engineering, Peer Assistance Leader** April 2021 - Present

- Advise three mentees currently with topics related to academic, career, and social concerns, serving as a resource for growth in engineering.