

# LIZ HOWDEN

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## EDUCATION

### University of Michigan

Ann Arbor, MI

*Bachelor of Science in Engineering in Computer Science*

*May 2022*

*GPA: 3.57/4.0 Dean's Honor List*

Coursework: Data Structures and Algorithms, Foundations of Computer Science, Programming and Introductory Data Structures, Discrete Math, Imagining Futures: Medicine, Artificial Intelligence, and Social Media, Introduction to Statistics and Data Analysis

## EXPERIENCE

### Engineering Advising Center

Ann Arbor, MI

*Orientation Peer Advisor*

*May 2019 – August 2019*

- Lead 1,400+ first year engineering students through summer orientation to ensure smooth transition to college by helping them choose courses, register for classes, and understand the policies and procedures of the College
- Used statistical techniques, Microsoft Excel, and C++ to interpret and analyze data to further improve orientation, course offerings, and to understand the incoming class.

## PROJECT EXPERIENCE

### LizHowden.com

Ann Arbor, MI

*Personal Coding Project*

*May 2019*

- Self-taught HTML and CSS to develop and finish personal website to exhibit my resume

### Self-Driving Cards, Drones, and Beyond

Ann Arbor, MI

*Engineering Design Project Class*

*January 2019- May 2019*

- Worked in a team of other engineering students to ensure our autonomous drone flew through a maze autonomously
- Develop, change, and implement sensors, circuits, signal processing, and control algorithms on a drone
- Used C++, worked with sensors, and wrote reports to convey hurdles and problems the team worked around

### BLUELab Yucatán Project Team

Ann Arbor, MI

*Sensor Team Member*

*September 2018 – May 2019*

- Wrote code and developed a machine to detect air quality and record data for analysis with a company partner
- Collaborated with students of all ages and experiences by learning and creating with them

## LEADERSHIP

### University of Michigan

Ann Arbor, MI

*Theme Resident Advisor*

*August 2019 – Present*

- Manage a university residence hall floor of 40 diverse first year students
- Collaborate with coworkers and supervisors to organize floor and building wide events to build community and address concerns
- Support the needs of residents through intentional interactions and activities

### Society of Women Engineers

Ann Arbor, MI

*Career Fair Chair*

*May 2019 – Present*

- Chosen through competitive application process to assist in running one of the largest career fairs at the University
- Arrange gatherings outside of designated career fair time for students to casually meet with recruiters and learn about the different companies

## ACTIVITIES

### Women in Science and Engineering Residence Program

Ann Arbor, MI

*Community Member*

*September 2018 – Present*

- Chosen through competitive application process to live and learn with 100 first year students studying STEM by participating in activities and study groups
- Actively engage in seminars and coursework focusing on women in STEM careers

## SKILLS

C++, MATLAB, HTML/CSS, Python, Java, Microsoft Excel, Microsoft Word, AutoCAD, AutoDesk Inventor