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: Engineering Design Projects: Autonomous Drones, 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

Autonomous Drones   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