

20750 Chadwick Ln  
Brookfield, WI 53045

# Ethan Lim

elim27@wisc.edu  
(773) 571-0382

## EDUCATION

---

### University of Wisconsin – Madison

Graduating May 2022

- B.S. in Electrical Engineering and Computer Science
- GPA: 3.4/4.0

## SKILLS

---

- Languages: Java, C, MATLAB, Python, HTML/CSS
- Technologies/Tools: JUnit, Git, Linux, Android

## PROJECTS

---

### Zen | Personal

Apr 2020 – May 2020

- Developed an **Android** app using **Java** in Android Studio to promote wellness through meditation
- Implemented the **Room** persistence library to cache user data on-device with a **SQLite** database
- Discovered the importance of the Fragment and Activity lifecycles and how they affect app functionality

### Water Filtration System | University of Wisconsin - Madison

Jan 2019 – May 2019

- Designed a portable water filtration system for Engineers Without Borders with a team of students
- Conducted thorough testing to determine flow rate, portability, and chlorination efficacy of the design

## WORK EXPERIENCE

---

### University of Wisconsin – Madison

Aug 2020 – Present

#### *Undergraduate Research Assistant*

- Working with the Laryngeal Physiology Lab to develop a model that will quantify vocal fold vibrations
- Designing a filter in **MATLAB** that emphasizes the veins on the glottis to improve point detection
- Upgrading a point tracking program to fit filter specifications which will help characterize mucosal waves
- Documenting all useful literature and relevant processes with the goal of publishing a manuscript

### Waukesha County Park System

May 2019 – Aug 2020

#### *Lifeguard (Seasonal)*

- Boosted the workplace environment by advocating for clearer and more consistent protocols for staff
- Assisted leadership with day to day beach operation through decision making and CPR/AED knowledge
- Enforced safety through effective communication between patrons, co-workers, and first responders

## ACTIVITIES

---

### American Red Cross Club

Jan 2019 – Present

#### *Treasurer*

- Strategically budgeting funds for the 2020-2021 academic year to improve impact per dollar
- Cut spending by over 50% through centralizing advertising campaigns for the organization