Katie Sanders

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EDUCATION

University of Illinois at Urbana-Champaign - *Computer Science, Minor: Electrical Engineering*

Graduating May 2022 | GPA: 3.57

Relevant Courses: Intro to Computer Science, Software Design Studio, Digital Signal Processing

Upcoming Courses: Data Structures and Algorithms, Electronic Circuits

Extracurriculars:

- *Member* - Women in Computer Science at UIUC, ACM @ UIUC, GameBuilders (2019-present)
- *Varsity Team Member* - UIUC NCAA Division 1 Women's Swimming (2018-2019)

WORK EXPERIENCE

Sanders RF Consulting LLC - *Electrical/Software Engineering Internship*

June 2020 - August 2020

- Designed a multiplexed seven-segment heart rate monitor display for Life-Sensing International, a medical technology corporation
- Wrote C code to program a PIC18F microcontroller to show a medical patient's heart rate, Sp02, and cardiac waveform in the body-worn heart rate monitor display
- Used Rhino CAD to model 3D prototypes of body-worn heart rate monitor

Introduction to Computer Science, University of Illinois - *Course Assistant*

January 2020 - May 2020

- Assisted students in entry-level Android development during lab sessions and office hours

Sanders RF Consulting LLC - *Electrical Engineering Internship*

July 2019 - August 2019

- Performed and documented ESD compliance testing on incubation device for OpenTrons, a biotechnology corporation specializing in hardware automation
- Field-tested Iridium GPS satellite phone handsets; generated/presented formal evaluation reports to the Iridium design team

PROJECTS

- Mode Master: Developed a Cinder/C++ application that transposes musical melodies in musicXML format
- Plant Game: Created a time-based plant growing game using *Andriod Studio, Java, Instagram API*
- Food Alerts (Code Ada Hackathon 2019): Developed online web-scraping app to alert users via text message to specific dining hall food items on the menu using *Python, JavaScript*

SKILLS

- **Languages:** Java, Python, C, C++