

# Justin Yang

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## EDUCATION

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### UNIVERSITY OF MICHIGAN

Bachelor of Science in Engineering, Computer Engineering

Ann Arbor, MI

Graduated: May 2024

- **Relevant Courses:** Advanced Embedded Systems, Embedded Control Systems, Database Management System, Data Structures and Algorithms, Digital Logic Design, Electronic Circuits

## WORK EXPERIENCE

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### INFINEON TECHNOLOGIES

Technical Sales Engineer/Field Application Engineer

Livonia, MI

July. 2024- Present

- Provide training and support on hardware and software solutions to customers and distributors using C, C++, FreeRTOS.
- Assist customers in designing and implementing technical solutions using company product
- Work directly with sales team pre and post sales technical support for multimillion dollars companies such as Whisker, Yanfeng, etc
- Establish and maintain relationships between customers engineering team and the company

### CUBEWORKS, INC

Electrical Engineering Intern

Ann Arbor, MI

Apr. 2022- May. 2024

- Conducted electrical testing of low-power electronic components and systems
- Operated test stations and compiling data to generated tables and plots
- Identified possible causes for anomalous behavior
- Composed concise presentation slides biweekly for progress update to core engineering team

## LEADERSHIP EXPERIENCE

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### UNIVERSITY OF MICHIGAN BADMINTON CLUB

Team Captain

Aug. 2020 – May. 2024

- Recruited 5 males and 4 females to compete in the 2021, 2022, 2023 USA Badminton Midwest Collegiate Conference
- First captain to lead university to first conference and national title
- Directed and established a training schedule for the entire team and modified plans based on everyone's needs

## PROJECT EXPERIENCE

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### MICHIGAN STADIUM CROWD MONITORING

Jan. 2024 – May. 2024

- Collected and pre-processed real time vibrational data from stadium structures to model crowd behavior patterns
- Developed supervised learning algorithms to detect abnormal crowd behavior and potential safety hazards
- Evaluated model's performance using 97% accuracy with real world data, creating effective monitoring of crowd

### INFINEON CAR ENTRY SYSTEM

Sep. 2023 – Dec. 2023

- Designed 3 modules with Bluetooth Mesh capabilities allowing functionality to H-Bridge, LCD SPI Display, and Audio Controls
- Implemented robust, testable, reusable, and sustainable FreeRTOS code tailored for H-Bridge, LCD SPI Display, and Audio controls
- Developed iOS app and interfaces using Swift to establish Bluetooth Mesh connection between modules and phone
- Collaborated with Infineon team in biweekly meeting for build verification and progress update

### RX SMART PILL DISPENSER

Mar. 2023 – Apr. 2023

- Designed a four-compartment pill dispenser allowing users to choose desired pills and amount from on a 3.5" Adafruit touchscreen
- Developed 20 touchscreen interfaces using an Arduino UNO microcontroller
- Setup an 8 data bits UART communication between the Arduino and STM32 microcontroller allowing correct number of pills to be dispense from designated compartment

## SKILLS

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- C++, C, Python, HTML, CSS, JavaScript, SQL, Embedded System, Swift, Visual Studio, Xcode, Linux