



Matthew Pham

Student

College freshman interested in computer science and technology. Seeking an internship for Summer 2019 to gain industry experience.



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CURRENT & PREVIOUS TECHNICAL COURSES

ECE 120 Introduction to Computing Honors

CS 196 Freshman Honors

MATH 241 Calculus III

CS 173 Discrete Structures

ECE 110 Introduction to Electronics

ECE 220 Computer Systems & Programming

PROGRAMMING LANGUAGES

Java



C



C#



Python



HTML



PROFESSIONAL EXPERIENCE

Summer Intern (2 Summers)

Manutronics, Inc.

June 2016 – July 2016, May 2017 – July 2017

Milpitas, CA

Printed Circuit Board manufacturing company contracted by companies such as Qualcomm, Kingston, and Broadcom.

Achievements/Tasks

- Oversaw the production of Printed Circuit Boards; managed a Surface Mount Technology pick and place machine.
- Ensured the quality of each circuit board; programmed each board and packaged the boards to send to customers.
- Diagnosed malfunctioning systems, equipment, and electrical parts, via using test equipment to identify the cause of breakdown.

PROJECTS & ACTIVITIES

Undergraduate Research Assistant

I work with Thong Nguyen at the University of Illinois Electromagnetics Laboratory to develop a web-based circuit simulator and assignment submission platform. Both tools will be used by ECE 400/500 level courses.

UITraffic

CS 196 Semester Project – Helping people avoid crowded areas for walking traffic purposes and predict ahead of time if a location will be populated to help make plans. For development purposes, the locations were notable areas around the University of Illinois at Urbana-Champaign's campus. I worked with React Native (JavaScript library), a UNIX environment, MySQL, PHP, HTML, and CSS. The team also utilized the Agile workflow to efficiently achieve set tasks each week.

IoT SmartHub

ECE 120 Honors Semester Project – A modular solution to dorm room automation. The device receives sensor input and produces a specified output on a device such as a light bulb. I worked on the server backend and website which handled the usage of the device.

MechMania (February 2019 - Present)

Infrastructure Developer – I am on the backend infrastructure development team for MechMania, the AI hackathon at the annual UIUC student-run Reflections | Projections tech conference. We work on web-based tools that handle matchmaking, team registration, tournament logic, and connecting teams.

FIRST Robotics Team 2854 (EVHS Robotics) (August 2014 – May 2018)

FRC Lead, Safety Captain, FRC Programmer – Was a lead of the FRC team, learned how to develop robot code using FRC's WPILib Java API, and established a successful team safety program. Designed, created, and implemented curriculum for robotics outreach in the local community.

EDUCATION

Bachelor of Science in Computer Engineering

University of Illinois at Urbana-Champaign

Expected Graduation: Spring 2022

Champaign, IL

ACHIEVEMENTS

FIRST Robotics Competition Regional Engineering Inspiration Award (March 2018)

Award that celebrates outstanding success in advancing respect and appreciation for engineering within a team's school and community. Qualified FRC Team 2854 for the 2018 FIRST Robotics Championship in Houston, TX.

API World 2017

1st Place Winner of the Dell Boomi Challenge at the largest API Integration Hackathon in the nation.