

# Dylan J. McCoy

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## EDUCATION

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**The University of Texas at Austin** Bachelor of Science in Electrical and Computer Engineering Honors May 2021  
GPA: 4.00

**Related Courses:** Operating Systems, Enterprise Network Security, Data Science Lab Algorithms, Data Structures

## WORK EXPERIENCE

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**Software Engineer Intern, Qualcomm** June 2019 – August 2019

- Designed, developed, and presented a testing framework in C++ to assist with regression testing and future development of TLS security protocol code
- Assisted IWLAN team to increase flexibility in device configuration with multiple Mobile Network Operators
- Worked to integrate newly acquired x509 and TLS modules into the codebase

**Software Engineer Intern, MagnetoSpeed LLC** May 2018 – August 2018

- Diagnosed inefficiencies in chronograph and implemented an algorithm reducing velocity calculation error to  $\pm 0.1\%$
- Updated code and designed a device improving product testing efficiency by over 50%
- Fulfilled consumer requests for a wireless chronograph by implementing Bluetooth Low Energy functionality

**Undergraduate Teaching Assistant, UT Austin** August 2018 – May 2019

- EE 306, *Intro to Computing*, and EE 319K, *Embedded Systems*
- Led recitation lectures for classes of 30+ students
- Collaborated with a team of faculty at weekly meeting and actively contributed new ideas on teaching

## PERSONAL PROJECTS

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**Chat Room** March 2019 – April 2019

- Multi-threaded chat room application with direct message and group chat functionality
- Utilized behavioral design pattern to identify communication patterns and develop application
- Used socket programming and followed TCP/IP to transmit information over the network

**Pokemon Showdown** April 2018 – May 2018

- A multiplayer turn based fighting game involving many unique Pokemon and attacks
- Developed, iterated, and demoed the game over a span of two weeks, placing in the top 5 in the course
- Created a physical console to play on with multiple inputs, sound output, and a display

**Arduino Programming Project** October 2017 – December 2017

- Explored and refined microcontroller programming to navigate mazes utilizing optic and haptic sensors
- Iterated over several program solutions, improving testing and debugging methods
- Designed, coded, and installed navigation and obstacle avoidance programs

## LEADERSHIP EXPERIENCE

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**Communications Officer, Institute of Electrical and Electronics Engineers** October 2017 – May 2018

- Managed and maintained social media presence through IEEE website and Facebook page
- Facilitated communication between the organization and over 200 members
- Created opportunities for members to interact with companies in a professional environment

## TECHNICAL SKILLS

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<b>Languages</b>	Python, Java, C++, C, ARM Assembly
<b>Web Development</b>	HTML/CSS

## INTERESTS AND ACTIVITIES

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**Volunteer:** The Cavaliers Drum and Bugle Corps, Texas Children's Baptist Home, McNeil High School Band, National Honor Society, Bands of America

**Interests:** Cooking, Sushi, Drum Corps International, Trumpet, Ultimate Frisbee, Volleyball, Swimming