Dylan J. McCoy

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EDUCATION

The University of Texas at Austin Bachelor of Science in Electrical and Computer Engineering Honors December 2020
GPA: 4.00

Related Courses: Algorithms, Software Design I & II, Digital Logic Design, Probability & Random Processes, Embedded Systems, Circuit Theory

WORK EXPERIENCE

Software Intern, MagnetoSpeed LLC May 2018 – August 2018
- Diagnosed issues with existing products and implemented a new solution reducing velocity calculation error to ±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 capabilities

Undergraduate Research Assistant, Microelectronic Research Center September 2017 – April 2018
- Performed growth recipes of 2D transition metal dichalcogenides to optimize production
- Characterized growths by their optical and atomic structures
- Synthesized Molybdenum Disulfide through chemical vapor deposition

Undergraduate Teaching Assistant, UT Austin August 2018 – Present
- Taught recitation lectures for classes of 30+ students
- Collaborated with a team of faculty at weekly meeting and actively contributed new ideas on teaching
- Aided students through office hours and tutoring

PERSONAL PROJECTS

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
- Placed in top 5 of the course-wide competition

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

Fischertechnik Marble Sorter March 2015 – April 2015
- Created a machine that automatically sorted marbles through differences in weight, size, and transparency
- Developed and tested multiple products, utilizing elements of the design process to improve efficiency and accuracy
- Collaborated with fellow peers in a team setting to produce the best possible product

LEADERSHIP EXPERIENCE

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

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

INTERESTS AND ACTIVITIES

Volunteer:	The Cavaliers Drum and Bugle Corps, Texas Children's Baptist Home, McNeil High School Band, National Honor Society, Bands of America
Interests:	Drum Corps International, Trumpet, Campus Ministry, Volleyball, Swimming