Ashton Dy

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EDUCATION

The University of Tennessee - Knoxville, Tickle College of Engineering   Knoxville, Tennessee
Bachelor of Science in Computer Science GPA: (3.91/4.0)   Graduation: May 2027
Major: Computer Science
Summa Cum Laude Honors & Grand Cook Challenge Scholar
Relevant Coursework – Data Structures & Algorithms, Computer Organization, Matrix Algebra

PROJECTS

Honors Engineering Arduino Project | *Programmer*   January 2024 - February 2024
- Worked in a group of four to design & create an interactive showcase of Chinese Mythology
- I was tasked with program an interactive ecosystem of hardware consisting of an array of LEDs, an ultrasonic sensor, a stepper motor, and a buzzer

RESEARCH / PROFESSIONAL EXPERIENCE

Quadruped Robotics | *Undergraduate Research Assistant*   March 2024 – Present
- Worked in a 2-man team analyzing the code of Unitree's Go2 quadruped robot
- Designed and 3D printed attachable mounts

The University of Tennessee | *Resident Assistant*   August 2024 – Present
- Fostered a flourishing community of upperclassman students by facilitating cross-cultural communication and organizing community-building programs
- Collaborated with other RAs and Hall Directors to ensure success in my position

INVOLVEMENT/LEADERSHIP

Society of Asian Scientists and Engineers | *Events Director*   January 2024 – Present
- Schedule and organize events for the academic year
- Focuses on networking those with Asian heritage into the STEM field
- Host workshops and professional training for entering the workforce

Engineers Without Borders | *Active Member*   April 2024 – Present
- Utilized engineering skills to benefit local and international communities
- Interdisciplinary collaboration to create a well-round solution

HackUTK | *Active Member*   January 2024 – Present
- Provides workshops, training, and speakers for cyber security education
- Capture the Flag and Hacker Competitions

Empower MHMS | *Founder and Director*   August 2022 – January 2023
- Spearheaded a joint task force of the local Hendersonville Police Department (HPD) and Merrol Hyde Magnet School (MHMS) administration to educate the community and provide a setting to train 24 officers in an active shooter scenario
- Organized and directed a self-defense seminar to educate the MHMS community
- Communicated with the HPD and MHMS administration over a course of 6 months to establish a venue, confirm attendance, and schedule dates/times

TECHNICAL SKILLS

Proficient Software / Languages

- C++
- Python
- RISC-V Assembly
- Java
- HTML
- CSS
- Fusion 360
- Javascript/ React