Ethan H Jones

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EDUCATION

Bachelor of Computer Science With a Minor In Cybersecurity

The University of Tennessee Knoxville   August 2022 - Present

- GPA: 3.51
- Year: Junior

TECHNICAL SKILLS

Computer Languages:	Engineering Skills:	Experience With:	General Skills:
C++	Circuitry	Algorithms	Microsoft Excel
Java	Microcontrollers	Data Structures	Microsoft Word
MATLAB	Wood Working	Financial Applications	OBS studio
Python			Leadership

PROJECTS

Puck Launcher

- Designed and built a spring-powered ballista using advanced woodworking machinery in the engineering complex.
- Developed a MATLAB algorithm to implement kinematic equations for accurately predicting impact locations.
- Collaborated with a team to finalize the ballista design and complete the project.

Arduino Light Sculpture

- Programmed a C++ application to create alternating light patterns on a 3D-printed rocket sculpture.
- Designed and wired an Arduino-powered circuitry system to interface seamlessly with the light patterns.
- Constructed the sculpture's base in the university woodshop, integrating form and function.

Recoverable Rocket

- Competed at nationals for the American Rocketry Challenge, achieving strict technical and performance criteria.
- Implemented an Arduino-based altimeter within the rocket to ensure compliance with height constraints during flight.
- Engineered a parachute system to optimize descent time without compromising payload integrity.

PROFESSIONAL EXPERIENCE

UTK Research

Undergraduate Researcher

- Programmed functionalities for the FRED dementia caretaking robot using Python.   March 2024 - May 2024
- Collaborated with a multidisciplinary team to develop and test features.
- Gained hands-on experience in robotics and healthcare technology.

Edfinancial

Payment Processing Specialist

- Process high volumes of payments accurately using proprietary systems.   May 2024 - Present
- Collaborate with cross-functional teams to resolve discrepancies and enhance efficiency.

Alpha Epsilon Pi Psi Deuteron

Vice President

- Elected to a year-long term by peers to lead and manage fraternity operations.   January 2024 - Present
- Supervise all chairmen and committees, ensuring alignment with organizational goals.
- Built leadership experience as the previous Social Chair, organizing social events and fostering
  member engagement.