Edward Brenmark

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EXPERIENCE

Illinois EV Concept   **Aug 2022 – Present**
Developer   *Urbana, IL*
- Utilized STM32Cube IDE and ST microcontrollers to implement communication between components on an electric vehicle.
- Collaborated with peers to implement an optical wheel speed encoder that displayed the speed of an electric vehicle to a display.

Undergraduate Researcher   **Jan 2023 – Present**
Researcher   *Urbana, IL*
- Trained a model in Anaconda using reinforcement learning and domain knowledge that extracts data taken from real and synthetic brain scans to predict individualized 10-year Alzheimer's Disease progression.
- Wrote a program in Python that visualizes data extracted from the model.

ECE Honors Lab   **Jan 2023 – May 2023**
Member   *Urbana, IL*
- Worked in a group lab setting to research and construct a functioning automatic plant watering system using Arduino and C++

IEEE   **Aug 2022 – Present**
Member   *Urbana, IL*
- Attended workshops in various aspects of Computer engineering such as soldering workshops and interdisciplinary leadership workshops.

Vice President of Mu Alpha Theta   **Aug 2019 – May 2022**
Vice President   *Plainfield, IL*
- Tutored in math and science subjects. Helped lead meetings, plan fundraisers, and manage funds and logistics.

Nancy's Pizza   **May 2020 – May 2021**
Member   *Bolingbrook, IL*
- Learned necessary operations to perform in the kitchen, trained new employees, and worked with peers to solve problems in order to provide the best possible customer experience.

EDUCATION

University of Illinois at Urbana-Champaign   **May 2026**
Computer Engineering   *Urbana, IL*
- **Extracurriculars:** Wind Orchestra, Philharmonia Orchestra

SKILLS & PROJECTS

- **Skills:** Python, C, C++, HTML, CSS, LC-3 Assembly, STM32, Circuitry, Soldering, Leadership, Employee training, Collaborative problem solving, Customer service.
- **Projects:**
    - Optical wheel speed encoder using STM32Cube IDE
    - Automated plant watering system using Arduino and C++
    - Postfix Stack calculator using Assembly
    - Python program that models data from trained output data
    - Portfolio website using HTML, CSS, JavaScript, and PHP