Will Buziak

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Background

Mechanical Engineering student with a minor in Computer Science, seeking to leverage technical skills and research passion in a dynamic and innovative environment to solve beautiful and intricate problems.

Research Interests

Embedded computing, Green/Low-power energy methods, Field robotics, Parallelism and Optimization, Multi-Physics modeling

Education

Bachelor of Science in Mechanical Engineering
University of Tennessee, Knoxville
Expected Graduation: May 2024
Minor: Computer Science

Experience

Electrochemical Energy Conversion and Storage Lab, Knoxville, TN
Undergraduate Research Assistant — Aug 2022 - Present

- Conducted modeling of two-phase flow for hydrogen electrolyzer research applications
- Web development for dynamic web interface with interactive data visualization
- Designed a user interface for energy storage and power delivery system requirements

Neuromorphic Computing Lab, Knoxville, TN
Undergraduate Research Assistant — Dec 2022 - Present

- Worked on embedded computing and control applications using spiking neural networks within the TENNLab neuromorphic framework
- Robotic design for swarming robotic applications with an emphasis on low-power electronics

Eck-Lectric Industries, Knoxville, TN
Mechanical Engineering Intern — Oct 2022 - Dec 2022

- Assisted in original product design for patent development

Shaw Industries, Dalton, GA
Process Engineering Co-op — May 2022 – Aug 2022

- Led process improvement projects in a manufacturing environment with a focus on waste optimization, automation and safety

Awards

- EnergyTech University Prize 2023 Bonus Prize finalist

Computer Skills

- Programming: C/C++, Python, Java, HTML/CSS, MATLAB
- Design Software: Solidworks, Onshape
- Operating Systems: Linux/Unix, Windows Suite
- Version Control: Git
- Single Board Computers: Raspberry Pi 4, Raspberry Pi Pico, Arduino

Contact

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