

Will Buziak

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Education

Colorado School of Mines

Ph.D. Computer Science

Expected Graduation:

May 2028-29

M.S. Computer Science

Expected Graduation:

May 2026

University of Tennessee, Knoxville

B.S. Mechanical Engineering

Graduation Date:

Minor: Computer Science

May 2024

Experience

Computer Architecture Design *Bahar Lab*

Graduate Research Assistant

Golden, CO

Aug 2024 – Present

- Secure Memory Architecture Design and Development for RISC-V Trusted Execution Environments.
- Modify, implement and verify RISC-V instructions within a simulated environment.

Neuromorphic Computing *TENNLab*

Undergraduate Research Assistant

Knoxville, TN

Dec 2022 – Aug 2024

- Mathematical modeling for dual fuel diesel-ammonia combustion engines (collaborated with ORNL).
- Embedded computing and control applications using spiking neural networks.
- Robotic design for swarming robotics applications.

Electrochemical Energy Conversion and Storage Lab *EESCL*

Undergraduate Research Assistant

Knoxville, TN

Aug 2022 – May 2024

- CFD modeling of two-phase flow for hydrogen electrolyzer research.
- Web development for interactive dynamic data visualization tools.
- UI design for energy storage and power delivery system requirements.

Eck-Lectric Ind.

Mechanical Engineering Intern

Knoxville, TN

Oct 2022 – Dec 2022

- Assist in original product design for patent development.

Shaw Ind.

Process Engineering Co-op

Dalton, GA

May 2022 – Aug 2022

- Process improvement projects focused on waste management, safety, and process optimization.

Awards

- C-MAPP Scholar 2025–2026
- EnergyTech University Prize 2023 Bonus Prize Finalist (Eck-Lectric)

Computer Skills

C/C++ | Python | Java | MATLAB | Solidworks/Onshape | Linux/Unix | Git | Raspberry Pi | Object-Oriented Programming | Shell Scripting | HTML/CSS | RISC-V | SLURM | SIMD | gem5 | QEMU | Qiskit | VHDL | Verilog | SystemVerilog | Rust | D-Wave