

Will Buziak

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Education

Colorado School of Mines
M.S. Computer Science

Expected Graduation:
May 2026

University of Tennessee, Knoxville
B.S. Mechanical Engineering
Minor Computer Science

Graduation Date:
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)

Knoxville, TN
Dec 2022 – Aug 2024

Undergraduate Research Assistant

- Mathematical Modeling for Dual Fuel Diesel-Ammonia Combustion Engines in a collaborative project with Oak Ridge National Research Lab (ORNL)
- Embedded computing and control applications using spiking neural networks within the TENNLab neuromorphic framework
- Robotic design for swarming robotics applications

Electrochemical Energy
Conversion and Storage Lab (EESCL)

Knoxville, TN
Aug 2022 – May 2024

Undergraduate Research Assistant

- Computational Fluid Dynamics (CFD) Modeling of two-phase flow for hydrogen electrolyzer research applications
- Web development for interactive dynamic data visualization tools
- Design a user interface 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 in a manufacturing environment focusing on waste management, safety and process optimization

Awards

EnergyTech University Prize 2023 Bonus Prize finalist (Eck-Lectric)

Computer Skills

C/C++ | Python | Java | MATLAB | Solidworks/Onshape | Linux/Unix | Git | Raspberry Pi | HTML/CSS | RISC-V
Shell Scripting | SLURM | SIMD | gem5 | QEMU