

Paxton Schroeder

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Experience

Research Assistant Intern

University of Arkansas Department of Electrical Engineering • Fayetteville, AR • June 2023 – May 2024

- Tested a novel design for semi-permanent magnets in induction motors
- Learned metal 3D printing techniques and independently manufactured components
- Co-authored two academic papers on our findings in ECCE & GreenTech

Startup Founder

University of Arkansas Innovation CORPS • Fayetteville, AR • Summer 2024

- Member of a team working on a National Science Foundation funded entrepreneurship project
- Worked on customer discovery, product-market fit, and prototyping our technology

Overnight Stocker

Walmart • Bentonville, AR • May 2025 – Aug 2025

- Stocked all departments and prepared the store for customers full-time.
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Education

University of Arkansas • Fayetteville, AR • August 2024 – May 2028

Major: Industrial Engineering and Operations Analytics

GPA: 3.72

Publications

Novel Design of Permanent Magnet-Assisted Synchronous Reluctance Motor Using Metal Additive Manufacturing Technology

IEEE Green Technologies Conference • March 2024

An Innovative Design of a Permanent Magnet-Assisted Synchronous Reluctance Motor to Improve Torque Performance for High Speed Applications

IEEE Energy Conversion Congress and Exposition • October 2024

Skills

Additive Manufacturing • Autodesk Fusion 360 • Microsoft Office • C++ • Java • R