

# JACOB DAHLHAUSER

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## **EDUCATION**

The University of Tennessee, Knoxville, Tickle College of Engineering & Herbert College of Agriculture

Bachelor of Science in Biosystems Engineering

Graduation: May 2027

Major: *Biosystems Engineering*

## **PROFESSIONAL EXPERIENCE**

### **TN Made**

Oak Ridge, TN

*Research Lab Assistant*

*January 2026 to Present*

- Operated 3 and 5 axis milling machines, Lathes, and a Wire EDM
- Assisted in research regarding metal additive manufacturing processes
- Worked alongside other engineers to make the processes field repeatable

### **Oak Ridge National Laboratory/University of Tennessee**

Oak Ridge, TN

Research Lab Assistant

*June 2023 to June 2025*

- Operated mechanical tests on various ceramic materials
- Analyzed data and created visual forms for presentations
- Utilized several characterization machines including Pycnometer, Instron, X-ray Diffraction, etc.

## **INVOLVEMENT**

### **Student Space Technology Association**

Knoxville, Tennessee

*Organization Member*

*August 2025 to Present*

- Contributed to two major club engineering projects including: a NASA Lunabotics competition, and a weather balloon design project

### **American Society of Agricultural and Biological Engineers**

Knoxville, Tennessee

*Organization Member*

*August 2024 to Present*

- Participated in weekly meetings and community projects while networking with other Agricultural and Biological engineers

## **PROJECTS**

### **NASA Lunabotics**

- Aided in the mechanical design decisions and CAD assembly for lunar excavation robot

### **NASA SSEP International Space Station Research Project**

- Wrote and experimented a research project for plant life in microgravity aboard the ISS

### **USDA Agricultural Robotics competition**

- Contributed to the mechanical design, CAD, and construction of a tree nursery robot

## **PUBLICATION**

A. A. Wereszczak, M. D. Loveday, M. M. Sereno, J. M. Dahlhauser, N. A. Rod, S. C. Hyde, S. J. Kotze, E. F. Ghezawi, K. V. Jones, and B. S. Cowell, " (U) "SeS Analysis" for Effective Portrayal of Bulk Powder Compaction and Its Relationship with the Combination of Network Establishment, Intrinsic Material Deformability, and Initial Morphology," ORNL/NTS-FY24/XX, May 2024.

## **SKILLS**

- Proficient in AutoCAD, Solidworks, Fusion, and Excel
- Hands on mechanical experience