

# Caleb Wells

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## Professional Experience

### Trane Technologies

Lexington, Ky

Design Intern

January 2025 – September 2025

- Engineered custom HVAC units with integrated fabrication logic using parametric 3D modeling, reducing design-to-production time.
- Optimized designs for automated manufacturing, reducing assembly complexity and improving production efficiency.
- Collaborated with cross-functional engineering and manufacturing teams to align designs with production requirements
- Assisted in troubleshooting and resolving quality issues by adjusting models and refining design specifications.

### Overland conveying

Madisonville, Ky

Design Engineer

May 2024 – October 2024

- Oversaw and coordinated multiple projects under the direction of the lead engineer, ensuring timely and efficient completion.
- Specializing in the design and fabrication of large-scale conveyor belt assemblies, contributing to system optimization.
- Collaborated in creating proposals by designing 3D models and presentations for new projects.
- Converted outdated hard-copy engineering drawings into digital formats, streamlining documentation and improving accessibility for future projects.

### Overland conveying

Madisonville, Ky

Engineering, Student Intern

April 2020 – August 2020

- Assessed and reported on prototype assemblies to the lead engineer for review.
- Manufactured custom conveyor belt cover assemblies
- Operated industrial machines like shears, presses, and pipe benders for fabrication.
- Assisted the lead engineer in identifying and implementing solutions for technical issues.

## Education

### University of Kentucky, College of Engineering

Program GPA: 3.0

- Pursuing a bachelor's in Lean Systems Engineering Technology

### Bluegrass Community and Technical College

Program GPA: 3.5

- Associates of Applied Science in Integrated Engineering Technology

## Technical Skills

### CAD

Creo parametric | AutoCAD | Fusion 360 | On shape | Cura | Autodesk Inventor

### Professional Skills

Motor Controls | Hydraulics | Pneumatics | Blueprinting | Robotic Maintenance | Drive Systems | Welding | Milling | Machining | 3D Printing

### Electrical/Programing

PLCs | Wiring | Soldering | Microcontrollers | Visual Studios | MATLAB | C++

### Certifications/Certificates

Mechanical Engineering Technology Certificate | Electrical Engineering Technology Certificate | Lean Systems Technology Certificate | Six Sigma White Belt | OSHA 10

## Projects

**Replacement Chute** – Directed the design and fabrication of a replacement coal chute for a power plant conveyor system, improving reliability and efficiency of material handling operations.

**Underground Conveyor Line** – Produced a comprehensive 3D model for a proposed underground conveyor belt chute, supporting engineering feasibility studies and strengthening client proposals.

**Mine Fan House** – Assisted in the design and fabrication of a fan house structure to supply fresh air to an underground mine, improving ventilation and worker safety.

**Drawing Conversion Initiative** – Converted legacy hard-copy engineering drawings into digital CAD models, improving accessibility and supporting future design work.

