

Tyler Lamb

Facilities Engineering Co Op Student

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📍 Dayton, OH 45402

STRENGTHS

- 📁 **Facility documentation**
AutoCAD drawings and utility records stayed organized during laboratory planning, giving reviewers a clearer basis for decisions.
- 📋 **Project coordination**
Capital trackers, meeting minutes, and action logs kept a simulated renovation moving when decisions changed.
- ⚙️ **Systems analysis**
HVAC, refrigeration, fire protection, and electrical reviews turned scattered findings into practical renewal recommendations.
- ♥️ **Data reporting**
An Excel dashboard made maintenance status and asset criticality easier for research teammates to review.
- 🌱 **Sustainability focus**
Energy modeling connected lighting and air handling choices with facility performance and thoughtful improvement planning.

SKILLS

AutoCAD Excel PowerPoint

Space planning HVAC assessment

Preventive maintenance

Capital project tracking

Dashboard reporting Data analysis

Sustainability Energy management

GxP documentation

Change control

Vendor coordination

Construction management

SUMMARY

Engineering student pursuing a Bachelor of Science in Mechanical Engineering, with a 3.6 GPA and focused preparation for **facilities engineering** in regulated research environments. Academic capstone and supervised laboratory work cover AutoCAD drawings, utility mapping, space planning, HVAC, refrigeration, **fire protection**, electrical systems, preventive maintenance, **capital project tracking**, and energy analysis. Built Excel dashboards, PowerPoint presentations, meeting minutes, action logs, and change control records for facility projects. Assessed **infrastructure renewal** options, documented maintenance information, reviewed vendor materials, and connected reliability decisions with operational continuity. Collaborative work across engineering, EHS, operations, and project teams has strengthened communication and organization. Interested in supporting safe, efficient facilities through practical analysis, clear documentation, and thoughtful project coordination.

EDUCATION

Bachelor's Degree in Mechanical Engineering

University of Dayton 🎓 GPA: 3.6 📅 2028 📍 Dayton, Ohio

***Coursework:** Facilities engineering, HVAC systems, construction management, energy analysis, engineering design*

TECHNICAL SKILLS

- **Design Software:** AutoCAD, utility mapping, floor plan drafting
- **Microsoft Office:** Excel, PowerPoint, meeting minutes
- **Facility Systems:** HVAC, refrigeration, electrical systems
- **Life Safety Systems:** Fire protection, building assessments, safety documentation
- **Maintenance Records:** Preventive maintenance, asset histories, work orders
- **Project Controls:** Capital tracking, milestones, risks
- **Data Analytics:** Dashboards, Excel analysis, asset criticality
- **Regulated Documentation:** GxP change control, qualification support, verification evidence
- **Energy Management:** Energy analysis, air handling schedules, lighting studies
- **Construction Delivery:** Construction sequencing, procurement, commissioning
- **Vendor Coordination:** Product data, technical submittals, action tracking
- **Workplace Planning:** Space optimization, circulation analysis, room layouts

EXPERIENCE

Facilities Engineering Capstone Student

University Project 📅 August 2026 - Present 📍 Dayton, Ohio

Support a supervised facilities engineering capstone for a 42,000 square foot instructional laboratory, covering space planning, infrastructure documentation, capital project tracking, design reviews, and sustainability analysis.

- Developed **AutoCAD** utility models for laboratory layouts, mechanical zones, and electrical service points.
- Built Excel capital project trackers for scope, cost, milestones, risks, decisions, and action owners.
- Evaluated HVAC, **refrigeration**, fire protection, and **electrical** infrastructure for renewal recommendations.
- Compared laboratory utilization and circulation needs through a **space optimization** proposal.
- Prepared PowerPoint design reviews, **meeting minutes**, and action logs for faculty stakeholders.
- Modeled lighting and air handling options, connecting energy findings with **sustainability** recommendations.

Facilities Reliability Research Assistant

University Research Lab 📅 January 2026 - August 2026 📍 Dayton, Ohio

LANGUAGES

English	Native
Spanish	Beginner

MY CAREER



- Facilities Engineering Capstone Student at University Project (1 Months)
- Facilities Reliability Research Assistant at University Research Lab (7 Months)
- Building Systems Design Project Student at Student Lab (3 Months)

Supported supervised facility systems research through asset documentation, maintenance analysis, reliability reporting, GxP style change control, vendor review, and **energy management** studies.

- Organized asset records, maintenance histories, and drawing references for **facility systems** research.
- Analyzed preventive maintenance data across pumps, air handling, **refrigeration**, and electrical assets.
- Created dashboards covering work orders, **asset criticality**, **maintenance intervals**, and 180 facility assets.
- Drafted GxP **change control** records with affected drawings, procedures, and verification evidence.
- Reviewed vendor product data and tracked technical resolutions for laboratory infrastructure exercises.
- Presented reliability findings linking maintenance strategy with operational continuity and lifecycle planning.

Building Systems Design Project Student

Student Lab 📅 September 2025 - December 2025 📍 Dayton, Ohio

Completed a supervised multidisciplinary **building systems** project involving AutoCAD documentation, **HVAC** analysis, construction sequencing, system coordination, commissioning preparation, and sustainability review.

- Produced AutoCAD floor plans and utility routing drawings with controlled design revisions.
- Calculated preliminary heating and cooling loads for a small research building.
- Mapped **fire protection**, electrical distribution, and refrigeration interfaces in a systems matrix.
- Linked **construction sequencing** with **procurement** lead times, site access, and commissioning.
- Organized design review notes and **action items** across four milestone meetings.
- Presented system selections, constructability, maintenance access, and sustainability opportunities.

PROJECTS

Laboratory Energy and Space Optimization Study 📅 2026

Connected space utilization, air handling schedules, lighting options, and future equipment needs in a practical recommendation for improved facility performance.

GxP Facility Change Control Simulation 📅 2026

Created a regulated documentation exercise linking proposed facility changes with drawings, procedures, verification evidence, and qualification support records.

LEADERSHIP & AWARDS

- Dean's List, University of Dayton, 2025 and 2026
- Engineering Student Project Showcase Finalist, 2026
- Academic Achievement Scholarship, 2025

CERTIFICATIONS

- AutoCAD Foundations 📅 2026
- Microsoft Learn: Analyze Data with Excel 📅 2026
- OSHA 10 Hour General Industry 📅 2026

PROFESSIONAL AFFILIATIONS

- Facilities and Sustainability Student Committee, Project Volunteer, 2026
- Engineering Peer Study Group, Coordinator, 2026
- Campus Energy Challenge, Student Team Member, 2025

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST