

Tyler Lamb

📞 (937) 555-1846 ✉️ tyler.lamb@example.com 🔗 linkedin.com/example/tylerlamb 📍 Dayton, OH 45402

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

2028
Dayton, Ohio

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

SKILLS

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|------------------|----------------------------|---------------------|---------------------------|
| • AutoCAD | • HVAC assessment | • Data analysis | • Change control |
| • Excel | • Preventive maintenance | • Sustainability | • Vendor coordination |
| • PowerPoint | • Capital project tracking | • Energy management | • Construction management |
| • Space planning | • Dashboard reporting | • GxP documentation | |

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

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

September 2025 - December 2025

Student Lab

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

LANGUAGES

- English (Native)
- Spanish (Beginner)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST