

# Tyler James

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## EDUCATION

### University of Kansas

*Bachelor of Science in Computer Engineering*

Lawrence, KS

*GPA: 3.92 — Expected May 2027*

### Maryville University

*Bachelor of Science in Business Administration*

St. Louis, MO (Online)

*Expected May 2029*

## EXPERIENCE

### Control Systems Integration Intern

*CRB*

May 2025 – August 2025

*St. Louis, MO*

- Learned and utilized Rockwell Automation tools including Studio 5000 and FactoryTalk View.
- Collaborated with controls team to design, implement, and test PLC logic for a new Kikkoman factory, emphasizing safety interlocks and efficiency.
- Authored and maintained device and procedure documentation to support system design and commissioning.
- Designed production-ready human-machine interface screens for multiple factory subsystems with a focus on operator workflow.

### Restoration Technician

*SERVPRO of Sunset Hills*

May 2024 – August 2024

*St. Louis, MO*

- Assisted a small team in assessing and restoring residential and commercial properties affected by water and fire.
- Coordinated with clients and teammates to enforce safety protocols and complete restoration tasks on schedule.

### Professional Development Chair

*Zeta Theta Tau*

August 2025 – Present

*Lawrence, KS*

- Coordinate with a co-chair to plan and facilitate professional development events for members.
- Implement strategies to increase event attendance; currently reporting a measurable improvement of 10%.
- Oversee committee finances and manage event budgets.

*Web Chair*

*January 2025 - May 2025*

- Maintained and updated the fraternity website to ensure accurate, current content and member profiles.

## PROJECTS

### LED Powered Digital Clock | C++, ESP32, Fusion 360, 3D Printing

August 2024 – February 2025

- Designed and fabricated a housing for a seven-segment LED digital clock.
- Assembled LED arrays and an ESP32 microcontroller; wrote C++ firmware to drive the display.
- Integrated a real-time clock via I2C for accurate timekeeping.
- Built a C++ LED driver using the FastLED library to interface with RTC data over I2C.

### Power Supply Voltage Inverter | AC/DC Circuit Design, 3D Modeling and Manufacturing

May 2025 – Present

- Designed and built a voltage inverter to provide a negative rail from a single +15 V supply for op-amp projects.
- Implemented a voltage regulator using a Zener diode to protect the IC from overvoltage.
- Chose component values to balance ripple, stability, and expected load.

### Home Server | Python, Proxmox, Linux, Docker

June 2025 – Present

- Deployed Proxmox to host virtual machines and Linux containers (LXC).
- Provisioned a NAS VM and wrote Python scripts to monitor health and backups.
- Hosted Dockerized services (e.g., game servers, network utilities, media servers) on a dedicated VM.

## TECHNICAL SKILLS

**Languages:** Python, C/C++, JavaScript, HTML/CSS, Ladder Logic

**Software:** Git, Docker, Proxmox, Linux (Ubuntu), Autodesk Fusion 360/EAGLE, Excel, Rockwell Studio 5000

**Hardware:** Arduino/ESP32, additive manufacturing (FDM 3D printing), AC/DC circuit design and analysis, embedded systems