

Layne Bennett

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EDUCATION

IOWA STATE UNIVERSITY | AMES, IA | 2023-2027

Major in Computer Engineering, GPA: 3.65, Dean's List

Relevant Courses and Clubs

- Integrated Circuits
- Microelectronics Fabrication Techniques
- Hardware Design for Machine Learning
- Digital VLSI Design
- Embedded Systems
- Software Dev. Practices
- Data Structures
- Operating Systems
- ISU CSE Club
- Chip Forge Club

PROFFESIONAL EXPERIENCE

Ziegler CAT

IT Operations Intern

Bloomington, MN

May 2026–Present

- Systems Integration:** Directed the integration of new Microsoft software for ~2,500 employees alongside a massive rollout of mobile hardware, Starlinks, and specialized RF scanners.
- Programming:** Collaborated with developers to identify and resolve LaserNet shipping request document formatting bugs, supporting promotion through testing environments and validation processes.

Iowa State University IT Solution Center

Senior Student Technician

Ames, IA

April 2024–Present

- Team Environment:** Communicate in a collaborative space to streamline workplace processes, train coworkers, and provide quick turnaround time on tickets.
- Adaptability:** At the forefront of changing systems and updating a knowledge base with 4,000+ articles ranging from enterprise account access issues to engineering software troubleshooting.
- Continual Improvement:** Introduced an improved account creation procedure to reduce a widespread MFA issue.
- Customer Service:** Serve a diverse group of young and old customers, addressing their needs and ensuring a positive experience. These come in the forms of calls, emailed tickets, and walk-ins.

American Horse Labor Company

Audio-Visual Stagehand

Minneapolis, MN

August 2023–January 2026

- Teamwork Experience:** Work exclusively in teams and with varying production managers, requiring constant communication to ensure \$10,000+ equipment is safe.
- Flexibility:** Need to adapt quickly to changing environment by assisting in directing parallel processes.
- Technical Knowledge:** Operate show lights, LED video board displays, electric motors, trusses, cables.
- Timeliness:** All projects need to be completed in a close time frame; strict concert deadlines are a key factor in production when doing shows for Beyoncé, Fallout Boy, Steve Aoki, etc.

SKILLS/PROJECTS

- Skills:** Java, C, C++/Arduino, HTML, Verilog, VHDL, Python, RISC-V, MS Office (Word, Excel, PowerPoint, Outlook), Quartus Prime, QuestaSim, ServiceNow, Cisco, Postman, Cadence
- Food Delivery Robot:** Co-developed a semi-autonomous food delivery system built on a hacked Roomba featuring servo-mounted IR sensors and controlled via a remote GUI. Firmware is written in C, and GUI is written in Python.
- RISC-V Processor:** Designed, debugged, and simulated both a single-cycle and hardware scheduled pipelined RISC-V processor written in VHDL. Benchmark tests were taken to determine their timing, critical path, and power consumption.
- Electronic Parts AI Agent Search Tool:** Created a web server that takes a user's project description and returns a list of recommended electronic components sourced from the web that are best fit for the application. Each item includes relevant information, including the datasheet if applicable. The agent utilizes Groq, Tavily, and DigiKey APIs to source information.