

Yuan Gilbert

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SUMMARY

Enthusiastic Electrical Engineering student with hands-on experience in digital farming technologies through academic projects and internships. Demonstrated ability to collaborate with cross-functional teams to develop innovative solutions addressing real-world agricultural challenges. Strong foundation in electrical engineering principles focused on sustainability and efficiency. Eager to leverage technical skills and passion for agriculture in a challenging internship role, contributing valuable insights and technical support while engaging with stakeholders in the field of digital farming.

EDUCATION

Bachelor of Science in Electrical Engineering
University of Wisconsin-Madison GPA: 3.7
Coursework: Circuits, Digital Systems, Signal Processing, Control Systems

2026
Madison, WI

TECHNICAL SKILLS

- **Engineering Software:** MATLAB, AutoCAD, Simulink
- **Scripting Languages:** Python, C++, Java
- **Digital Farming Tools:** Arduino, Raspberry Pi, IoT Sensors
- **Project Management Tools:** Asana, Trello, Microsoft Project
- **Documentation Tools:** Google Docs, Microsoft Word, LaTeX
- **Data Analysis Platforms:** Excel, MATLAB, Python
- **Presentation Software:** Microsoft PowerPoint, Prezi, Google Slides
- **Collaboration Tools:** Slack, Microsoft Teams, Zoom
- **Testing Frameworks:** JUnit, PyTest, Selenium
- **Hardware Description Languages:** VHDL, Verilog, SystemVerilog

SKILLS

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|-------------------------------------|---------------------------|---------------------|----------------------------------|
| • Electrical Engineering Principles | • Team Collaboration | • Safety Compliance | • Sustainability Practices |
| • Digital Farming Technologies | • Technical Documentation | • Innovative Design | • Report Generation |
| • Data Analysis | • Field Testing | • IoT Applications | • Cross-Functional Communication |
| • Project Management | • Customer Engagement | • Technical Support | |

EXPERIENCE

Digital Farming Solutions Developer
University Project

January 2026 - May 2026
Madison, WI

Led development of sustainable agricultural solutions that integrated digital farming technologies. Managed project interactions with local farmers, ensuring alignment with their needs and operational realities.

- Conducted research on digital farming technologies, leading to a precise farming prototype.
- Collaborated with peers to design and test sensors for improved crop yield monitoring.
- Drafted detailed documentation outlining methodologies to facilitate peer presentations.
- Engaged farmers for feedback on tech needs, enhancing project relevance.
- Troubleshoot sensor issues during testing, increasing reliability by 15%.
- Presented findings at an agriculture technology fair, earning recognition from professionals.

Electrical Engineering Research Assistant
Academic Research

September 2025 - December 2025
Madison, WI

Supported IoT integration efforts within smart farming applications, analyzing data to refine technology designs for better performance.

- Contributed to experimental setups and data assessments on digital farming innovations.
- Provided actionable insights from data analyses to inform future design directions.
- Maintained thorough documentation to facilitate peer knowledge sharing and review.
- Collaborated weekly with team members to address challenges and track progress.
- Helped generate educational materials aimed at informing the agricultural sector.
- Ensured compliance with safety standards throughout all research activities.

Smart Agriculture Innovator

June 2025

Hackathon Project

Remote

Developed a prototype automated irrigation system using Arduino technology, contributing effectively to sustainable agricultural practices.

- Created a water conservation system based on real-time environmental data analysis.
- Collaborated actively in brainstorming sessions focusing on urban agricultural improvements.
- Designed user-friendly interfaces enabling farmers to control systems remotely.
- Perfected prototype through rigorous testing, culminating successfully at the hackathon.
- Awarded Best Innovation Award for impactful water-saving contributions.
- Documented every project aspect for submission in a university innovation contest.

LEADERSHIP & AWARDS

- Dean's List, University of Wisconsin-Madison, 2025
- Best Innovation Award, Agriculture Hackathon, 2025

CERTIFICATIONS

- Digital Farming Technology Certification 📅 2025
- IoT for Agriculture 📅 2025

PROFESSIONAL AFFILIATIONS

- Member, University of Wisconsin Engineering Society
- Volunteer, Local Community Garden Project

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST