

Yuan Gilbert

Digital Farming Intern

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 Madison, WI, 53703

STRENGTHS

-  **Innovative Problem Solver**
Generated effective solutions by leveraging strong electrical engineering principles during technical troubleshooting experiences.
-  **Collaborative Team Player**
Regularly collaborated with classmates, fostering teamwork and collective success when developing farm-focused technological solutions.
-  **Strong Communicator**
Engaged with local farmers to understand specific technological needs while effectively presenting project updates and seeking feedback.
-  **Detail-Oriented Organizer**
Maintained meticulous project documentation, ensuring clarity in communication and methodological integrity throughout academic presentations.
-  **Adaptable Learner**
Participated in diverse training opportunities, continually enhancing expertise in digital farming technologies amidst evolving industry landscapes.

SKILLS

- Electrical Engineering Principles

Digital Farming Technologies

Data Analysis

Project Management

Team Collaboration

Technical Documentation

Field Testing

Customer Engagement

Safety Compliance
- Innovative Design

IoT Applications

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  2026  Madison, WI
Coursework: Circuits, Digital Systems, Signal Processing, Control Systems

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

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**
Hackathon Project  June 2025  Remote

Technical Support

Sustainability Practices

Report Generation

Cross-Functional Communication

LANGUAGES

English Native

Spanish Proficient

MY CAREER



● Digital Farming Solutions
Developer at University Project
(4 Months)

● Electrical Engineering
Research Assistant at Academic
Research (3 Months)

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

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST