Yuan Gilbert

Digital Farming Intern

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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 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.
- Troubleshot 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.

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

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)

Smart Agriculture Innovator

Hackathon Project | June 2025 | 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

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST