

JOHN CONE

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<https://circuitslegend.github.io/>

EDUCATION

**B.S. ELECTRICAL ENGINEERING**, *Emphasis in Space Systems Design*  
Minor in Mathematics  
Utah State University (USU)  
3.65 GPA  
Continuous Time Systems and Signals, Microcontroller Hardware and Software, Digital System Design

**April 2026**  
Logan, Utah

RELEVANT WORK EXPERIENCE

**UTAH WATER RESEARCH LAB INTERN**  
Utah State University

**October 2023 – May 2024**  
Logan, Utah

- Executed detailed technical specifications to assemble precision yield monitoring systems for agricultural use
- Designed specialized software for sensor communication protocols and system integration for yield monitors
- Validated equipment through systematic testing procedures, identifying and implementing design improvements

**MUNICIPAL ENGINEERING INTERN**  
Horrocks Engineering

**May 2024 - August 2024**  
Heber City, Utah

- Conducted comprehensive job site inspections in accordance with county regulations and specifications
- Facilitated strategic team meetings between city officials and contracted personnel to ensure project alignment
- Supervised general contractors and construction crews while providing technical expertise and project guidance
- Managed independent municipal projects including utility system assessments and roadway warranty evaluations

**RESEARCHER**  
Center for Space Engineering

**December 2024 – Present**  
Logan, Utah

- Designed three custom printed circuit boards (PCBs) for seamless system integration and interface compatibility
- Expertise in the design, debugging and testing of complex hardware and software systems
- Authored and published peer-reviewed research paper on small satellite systems and technologies
- Selected to present research findings at the 2025 Annual SmallSat Conference

COMPUTER SKILLS

C	C++	Verilog/VHDL	Git	Linux
Exel	KiCad	SolidWorks	MATLAB	LTspice

PERSONAL PROJECTS AND EXPERIENCE

**EXPERIENCE**

**November 2022 – Present**  
Logan, Utah

- Recipient of competitive Engineering Undergraduate Research Scholar grant award
- FAA Remote Pilot Certificate holder with unmanned aircraft systems operational authority
- Developed and constructed IEEE engineering projects, including a musical Tesla coil demonstration system
- Winner of Utah State University's Ignite Engineering Challenge for innovative RGB LED cube project design