

# Quentin Wingard

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## EDUCATION & CERTIFICATIONS

### University of Colorado Boulder, Boulder, CO

August 2020 – May 2024

B.S. in Creative Technology and Design with focus in Systems Engineering

- Dean's List recipient

### Department of Transportation -Federal Aviation Administration

January 2025

Student Pilots Certificate

### Intended Master's in Systems Engineering

## SKILLS

- Proficient in data analysis, process optimization, and forecasting models utilizing SQL, Excel, Python, and MATLAB
- IT and systems support troubleshooting Windows and macOS devices, system security, and network configuration
- Familiar with drafting and technical designs using AutoCAD, SketchUp, and Blender
- Adept full-stack developer utilizing HTML, CSS, JavaScript, PHP, and REST API's
- Project Coordination by managing inventory tracking, scheduling, research, and reporting
- Native fluency in French

## WORK EXPERIENCE

### Software Engineering Intern | Converlogic | Miami, FL

November 2024 – March 2025

- Designed and maintained API integrations to ensure seamless communication across systems
- Developed and optimized SQL databases improving data organization and retrieval efficiency
- Conducted system troubleshooting and debugging enhancing software reliability and workflow efficiency
- Performed data analysis and implemented UI/UX improvements to enhance user experience

### Systems Engineering Intern | Silicon Flatirons | Boulder, CO

June 2023 – August 2023

- Led a cross-functional team in developing a startup by applying agile methodologies to optimize problem-solving speed
- Conducted market data analysis to inform decision-making and resource allocation strategies
- Designed wireframes and mockups to effectively communicate system design and functionality
- Engaged with entrepreneurial networks to refine business models and product development strategies

### Student Assistant | Duane Physics and Astrophysics | Boulder, CO

September 2022 – May 2024

- Provided IT and AV support troubleshooting software and performing system maintenance
- Managed confidential data and procurement processes streamlining department operations
- Collected, analyzed, and organized data to improve operational efficiency and resource management

## PROJECT EXPERIENCE

### Lead Systems Engineer | CU Boulder Senior Capstone Project | Boulder, CO

August 2023 – May 2024

- Led full-stack development and system integration for an adaptive IoT system
- Designed and tested IoT sensors and hardware components ensuring real-time data accuracy
- Developed automation scripts in Python to streamline system monitoring and adjustments
- Applied predictive modeling to enhance decision-making and optimize system performance

### Software Developer | Rocket Trajectory Simulation CU Boulder | Boulder, CO

August 2020 – December 2021

- Developed a simulation in C++ for tracking satellite orbits
- Analyzed rocket parameters in MATLAB to calculate trajectory and in-flight dynamics
- Modeled satellite position to assess coverage gaps and optimize ground station connectivity
- Conducted debugging and testing to ensure system reliability and performance