

Casey Rivera

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Education

University of Colorado Boulder, Boulder, CO

Bachelor of Science in Electrical & Computer Engineering

Graduation: May 2024 | GPA: 3.6/4.0

Relevant Coursework: Embedded Systems, VLSI, Digital Signal Processing

Experience

Embedded Systems Intern | Arrow Electronics | Summer 2023

- Developed firmware for ARM Cortex-M MCUs
- Integrated ADCs, PWM, and I2C peripherals into production codebase
- Wrote bootloader utilities and diagnostics

Capstone Team Lead | Aug 2023 - Present

- Leading a 5-person team building a smart energy meter with onboard analytics

Technical Skills

- C, Embedded C++, FreeRTOS
- I2C, SPI, UART, DMA
- STM32CubeMX, Keil, Git

Projects

Smart Energy Monitor

- Built custom PCB and firmware for voltage/current sensing
- Real-time dashboard connected via Wi-Fi and MQTT

Soft Skills

- Leadership
- Organization
- Hands-on Debugging
- Initiative