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Carlos Mendes

Embedded Systems Programmer

Embedded systems programmer with 11 years of experience building firmware and embedded applications for IoT and hardware devices. Proficient in C, C++, and real-time operating systems (RTOS). Strong background in memory optimization and hardware-level debugging.

CONTACT



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GitHub | Portfolio



Austin, TX 78702

PROFESSIONAL EXPERIENCE

EMBEDDED SOFTWARE ENGINEER | ARCPPOINT ROBOTICS, AUSTIN, TX
APRIL 2016 – PRESENT

- Developed real-time firmware for robotic arm controllers, reducing actuation lag by 68% and increasing throughput by 17%
- Implemented memory-safe drivers for SPI/I2C interfaces, eliminating buffer overflows and improving stability during high-load scenarios
- Collaborated with hardware team to debug cross-layer issues, reducing integration testing time by 41%

FIRMWARE DEVELOPER | SUNTECH EMBEDDED SOLUTIONS, AUSTIN, TX
AUGUST 2011 – MARCH 2016

- Wrote embedded C code for wearable devices, achieving 92% battery efficiency during continuous use
- Designed over-the-air (OTA) update mechanism that decreased firmware deployment time from three days to under six hours
- Used logic analyzers and oscilloscopes to identify signal timing mismatches and reduce device boot time by 2.7 seconds

EDUCATION