Giovanni Cordova

Robotics & Controls Engineer
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SUMMARY

Robotics and controls engineer with 3+ years of experience delivering complex electromechanical and software systems in robotics, automation, and R&D environments. Proven ability to design and integrate firmware, software, hardware, and HMI systems end-to-end, with work presented to executive leadership and customers. Strong background in system integration, cross-functional collaboration, and transitioning prototypes into robust, scalable solutions.

CORE SKILLS

Robotics Systems Integration • Controls & Firmware (C++) • Python • Embedded Systems • System Architecture • PCB Design • HMI Development (Flutter) • CAD & Mechanical Design • MATLAB • Automation Testing • Documentation

EXPERIENCE

Mechatronics Engineer — *CREADIS (Vestas Contract)*
March 2025 – Present

- Designed and integrated firmware for 11 embedded modules (C++) supporting robotic control and sensing.
- Developed 9 Python applications for automation, configuration, diagnostics, and testing.
- Created custom PCBAs and 13 CAD components supporting mechanical and electrical integration.
- Built 3 HMI dashboards (Flutter) enabling control, service, and configuration of a complex robotic system.
- Delivered a robotic system presented to C-level executives, receiving strong positive feedback.
- Contributed to contract extension and expansion through consistent delivery and system quality.

Robotics Deployment Engineer — *TEKsystems (Amazon Robotics)*
Jan 2025 – March 2025

- Promoted within four months to deploy advanced robotics systems across fulfillment centers nationwide.
- Performed QC and validation of robotic installations to ensure safety and specification compliance.

T3 Test Support Engineer — *TEKsystems (Amazon Robotics)*
Sep 2024 – Dec 2024

- Led Tier 1 & 2 teams executing test procedures for advanced robotics systems.
- Developed and maintained requirements and test documentation.

Robotics Research Engineer — *AFRL / UNM Agile Manufacturing Lab*
Aug 2022 – May 2024

- Integrated and remotely programmed a UR5e robotic manipulator into a 7-DOF track system.
- Second author on an IEEE IROS 2023 publication on autonomous multi-robot servicing.

EDUCATION

University of New Mexico — *B.S. Mechanical Engineering, 2024*
Graduated in 3 years | GPA: 3.68

CERTIFICATIONS & AWARDS

Outstanding Junior Award • 1st Place UNM Engineering Expo • UX/UI Bootcamp • OSHA 10