CHRIS GARZA

Robotics Deployment Engineer · Embedded & Hardware Systems

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PROFESSIONAL SUMMARY

Deployment engineer who takes robots out of the lab and keeps them working on live warehouse floors. Currently deploying Dexory's autonomous inventory-scanning robots across the US, Mexico and Canada; previously sustained 98% uptime on a humanoid and mobile robot fleet at Avatar Robotics. Co-founder of Icarus, an automated 3D print farm, and VP of UTA's competitive robotics team.

TECHNICAL SKILLS

Robotics & Deployment	AMR fleets (Omron LD-60/90) · ROS · Computer vision · Sensor integration · Calibration · Field deployment & go-live · Actuator repair
Electronics & Embedded	PCB troubleshooting (oscilloscope, multimeter) · KiCad · Soldering · Wiring harnesses · Arduino · STM32 · Raspberry Pi · NVIDIA Jetson
CAD & Manufacturing	SolidWorks · Autodesk Fusion · AutoCAD · Additive manufacturing (Bambu Lab fleet; Nylon, CF-Nylon, TPU, ABS, PETG) · MIG welding
Software	Python · C++ · TypeScript · Dart · Flutter · React / Next.js · Supabase · PostgreSQL · Git / GitHub

PROFESSIONAL EXPERIENCE

Dexory — *Deployment Engineer* · US, Mexico & Canada — Sep 2026 – Present

- Deploy Dexory's autonomous inventory-scanning robots, which map warehouse racking up to 18 m high into a live digital twin, into customer warehouses across three countries.
- Own sites from setup and integration through go-live: hardware troubleshooting, sensor and vision-tower calibration, and hand-off to customer operations teams.

Avatar Robotics — *Junior Field Deployment Engineer* · Dallas, TX & customer sites — Dec 2025 – Sep 2026

Promoted twice in nine months: Field Deployment Representative → Specialist → Junior Field Deployment Engineer

- Sustained 98% fleet uptime for humanoid and mobile robots in live warehouse and fulfillment environments through preventative maintenance and component-level repair of high-torque actuators.
- Cut system downtime 3% in six months with the company's first preventative maintenance matrix.
- Led field deployments from site integration to operator hand-off; diagnosed PCB logic failures, sensor-fusion anomalies and mechanical faults alongside the CTO and lead engineers.
- Authored the company's first SOPs for assembly, safety and field deployment.

University of Texas at Arlington — *Undergraduate Research Assistant* · Arlington, TX — Spring 2025 – Dec 2025

- Industrial engineering and robotics research with Dr. Overton: programmed Omron LD-60/90 autonomous mobile robots and integrated custom sensor payloads on industrial mobile platforms.

LEADERSHIP & ENTREPRENEURSHIP

Icarus (Automated 3D Print Farm) — *Co-Founder & Lead Engineer* · Dallas, TX — Dec 2025 – Present

- Building a zero-touch print farm: robotic arms clear finished build plates and restart jobs without an operator.
- Scaled a multi-printer Bambu Lab fleet with material testing across Nylon, CF-Nylon, TPU, ABS and PETG; built its inventory and job-tracking platform (Flutter + Supabase) with real-time stock alerts.

UTA Robomasters (RoboMavs) — *Vice President & Electrical Lead* · Arlington, TX — Fall 2024 – Present

- Helped lead the team to 2nd in Texas and 10th nationally (of 28 teams) at the RMNA 2025 Robotics Competition.
- Architected wiring harnesses, power distribution and embedded control for the team's robots; designed a custom X-drive suspension in SolidWorks, built with additive manufacturing.

Mater Dei Catholic Church · *Team Lead, Facilities & Construction* — 2023 – Present

PROJECTS

Macroly.fit (macroly.fit) — AI fitness and nutrition tracker that turns logged meals and workouts into adaptive targets (Flutter, Supabase).

EDUCATION & CERTIFICATIONS

University of Advancing Technology — B.S. Robotics & Embedded Systems Engineering — Expected Late 2027

University of Texas at Arlington — Industrial Engineering (transferred) · Coursework: Industrial Automation, Systems Integration, CAD · Honors: Golden Falcon Award for Technology

Certifications & Affiliations — High-Power Rocketry: NAR Member #126459 and Tripoli Rocketry Association; pursuing Level 3 HPR certification.