

ROBERTO ARMENTA

Solutions Architect — Cloud, Data & AI | Manufacturing & Supply Chain

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SUMMARY

Bilingual (English/Spanish) solutions architect with 14 years designing and delivering enterprise data, application, and AI solutions across Microsoft and Gulfstream Aerospace. Specializes in **AI agent architecture**, enterprise integration, and modern application design — combining Azure, Microsoft Fabric, Copilot Studio, and AI Foundry with hands-on manufacturing and supply chain domain expertise (MES, OEE, Lean, RCCA). Trusted advisor to Fortune 500 technical and business stakeholders, leading architecture workshops, governance sessions, and cross-functional delivery from proof of concept through production. Career record of **20+ automation and data-integration solutions** that turned hours of manual work into seconds.

CORE COMPETENCIES

Cloud & AI: Azure architecture & governance, AI agent architecture (Microsoft AI Foundry, Copilot Studio, Model Context Protocol), Microsoft Fabric, Power Platform (Power Apps, Power Automate, Power Pages)

Data Platform: SQL Server administration, architecture & design, T-SQL (stored procedures, functions, triggers), ETL & data integration, NoSQL, Power BI, Power Query

Development: C#, .NET, Python, VB.NET, JavaScript, jQuery, REST & WCF services, SharePoint & Nintex, Azure DevOps, Git, Agile (SCRUM)

Manufacturing & Supply Chain: MES, OEE, Lean / Six Sigma, RCCA, DMAIC, production planning, supplier performance, SAP ME, CATIA V5, additive manufacturing

PROFESSIONAL EXPERIENCE

Microsoft

Apr 2022 – Present

Cloud Solution Architect — United States (based in Miami, FL)

- Trusted architecture advisor to **Fortune 500 customers**: lead technical discovery, architecture design sessions, and executive workshops that translate business requirements into deployable Azure solution strategies.
- Guide customers building **AI and agent-based solutions** with Microsoft AI Foundry and Copilot Studio — owning architecture decisions for orchestration, integration, governance, security, and production readiness.
- Design data and application architectures spanning Azure, Microsoft Fabric, and Power Platform, integrated with enterprise systems (ERP, CRM, data warehouses).
- Technical instructor for hands-on cloud and AI labs; earned Skillable Instructor Recognition milestones for **100+ students reached** (2023–2025).
- Partner with account teams, engineering, and product specialists to reduce delivery friction, accelerate adoption, and improve long-term customer success.
- Earned Microsoft's **100% Attainment award (FY25)** for reaching 100% of annual targets across the account portfolio.

Gulfstream Aerospace

May 2012 – Apr 2022

Ten years of increasing responsibility — from student apprentice in Mexicali, Mexico to enterprise software engineer in Savannah, GA.

Business Application Development Technical Specialist (Software Engineer)

Apr 2021 – Apr 2022

- Developed and supported in-house business applications and integrated systems for engineering, manufacturing, and operations as a full-stack developer (C#, T-SQL, Python, VB.NET, JavaScript, SQL Server, NoSQL).
- Built a BOM-notes validation tool (refactored from VB.NET to C#) enabling engineers to verify PLM bill-of-material notes against a standard SQL catalog per FAA requirements.

Supply Chain Engineer II → III (Software Developer)

Mar 2017 – Apr 2021

- SQL Server administrator, architect, and developer for solutions integrating quality, production, delivery, and finance data across enterprise platforms (SAP, CAS, Cognos, SmarTeam).
- Engineered a supplier-delivery analytics pipeline ingesting **500,000+ purchase-order records in under 2 minutes** (C#, T-SQL bulk load), giving leadership a real-time view of supplier performance.

- Built the Supplier Performance & Development Reporting System, automating defect, purchase-order, vendor, and workload metrics for management and operations (VB.NET, T-SQL, Power BI, SharePoint).
- Replaced a **15-minute manual MES query workflow** with a Windows-authenticated desktop app powered by indexed stored procedures — **results in seconds**; fulfilled executive ad-hoc data requests within minutes.

Industrial Engineer — Wing Manufacturing (Software Developer)

Nov 2014 – Mar 2017

- Created the Gulfstream Production Tracking System (GPTS), the site's first daily production-tracking and workload-planning platform (VB.NET, T-SQL) — cut report creation and delivery from **8 hours to 1.2 seconds** across 3 aircraft models and 12 build stations.
- Automated daily quality-defect reporting to Engineering, Operations, and Quality — fully self-triggering with zero manual effort.
- Designed indirect tooling in CATIA V5 for additive manufacturing (3D printing) and CNC machining on the G650 and AAP wing programs.

Early Career — Manufacturing Engineer · Industrial Engineer · Student Apprentice

May 2012 – Nov 2014

- Co-created a site-wide procurement and requisition system (VBA/Access) with role-based approval workflows; documented, **trained 300+ users**, and supported it in production until SAP replaced it in 2016 — earning the **Gulfstream Mach 3 Award (2013)** and **2015 BEYA STEM Modern-Day Technology Leader** recognition.
- Built an MES capturing daily output, labor hours, CNC spindle times, and defects to compute business-unit OEE (Overall Equipment Effectiveness); served as project manager for new-technology and process-automation implementations.
- Performed root-cause corrective action (RCCA) on aircraft-part quality issues; designed and fabricated production tooling for sheet-metal extrusions.

EDUCATION

CETYS Universidad — B.Eng., Mechatronics, Robotics & Automation Engineering

2007 – 2012

Project Management Diploma, CETYS Universidad (2014)

Universidad del Valle de Atemajac (UNIVA) — Academic exchange, Mechatronics Engineering

2010 – 2011

CERTIFICATIONS & TRAINING

Microsoft Applied Skills: Create Agents in Microsoft Copilot Studio (2026) • Microsoft Applied Skills: Create and Manage Automated Processes with Power Automate (2026)

Microsoft Certified: Azure Fundamentals (2022) • Microsoft Certified: Power Platform Fundamentals (2022) • Model Context Protocol (MCP) for Beginners — Microsoft (2026)

CATIA V5 VBA Automation — Rand Worldwide (2013) • Additional training: Azure DevOps, Git, PMI-ACP exam prep, JavaScript & jQuery (LinkedIn Learning)

AWARDS & LANGUAGES

100% Attainment, FY25 — Microsoft • Skilleable Instructor Recognition, 100+ Students (2025) • BEYA STEM Modern-Day Technology Leader (2015) • Gulfstream Mach 3 Award (2013)

Languages: English (fluent) • Spanish (native)