

Oswaldo Reyes Velarde

CONTROLS AND ROBOTICS
SENIOR ENGINEER & LEAD

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PROFILE

Controls and robotics engineer with 9+ years delivering intralogistics and manufacturing automation from concept and design through FAT/SAT, commissioning, ramp-up and stabilization across EMEA and US sites. Experienced in controls leadership on complex projects: aligning scope and milestones, coordinating integrators and vendors, and driving delivery governance across departments. Strong technical depth in PLC/SCADA/HMI, and industrial safety, with a pragmatic approach to commissioning and handover.

CAREER SNAPSHOT

- Led controls engineering on a 1,200+ shuttle AS/RS deployment in the GCC region; accountable through commissioning, FAT, SAT, go-live and hypercare.
 - Standardized PLC commissioning checklists across projects to reduce on-site debug time.
 - Delivered customer trainings and handovers in English and German; strong track record of cross-team problem-solving during go-lives.
 - Direct experience owning workcell bring-up (PLC, I/O, safety, HMI) interfacing with WCS/WMS & MES.
 - Supported functional specifications and operating descriptions (DoO) for customer approvals and ensured controls documentation completeness at handover.
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EXPERIENCE

Accenture

Associate Manager - Autonomous Robotics
June 2023 - Present, Germany

Projects:

- Business development, various
June 2023 - Present
- Industrial M&A strategic reinvention
November 2025 - Present
- Line automation for automotive OEM
February 2024 - February 2025
- Digital twin for industrial automation
June 2023 - January 2024

Job description:

Leading client delivery, technical governance and strategic reinvention in industrial automation.

Responsibilities:

- Client-facing controls lead (scope, milestones, risks/issues) with standards and CI/CD
- Transformation of Acquisiton's business model
- Bridge between controls and simulation teams via design reviews and decision tracking

Tools:

TIA Portal V17 & V18, UE5, FANUC ROBOGUIDE, MQTT, OPC UA, Jira, MS Project

Dematic GmbH

Senior Controls Engineer
(Senior SPS-Programmierer /
Automatisierungstechniker)

August 2020 - May 2023, Germany

Projects:

- Mode Logistik (Bedburg, DE)
March 2023 - May 2023
- Bunting (Nortmoor, DE)
June 2022 - March 2023
- Schäflein (Langenau, DE)
April 2022 - August 2022
- Ceratizit (Kempten, DE)
March 2021 - February 2022
- RS Components (Bad Hersfeld, DE)
September 2020 - January 2022

Dematic

Commissioning Engineer

August 2016 - August 2020, USA & UAE

Projects with DMS, Controls:

- Landmark O-Mega DC (Dubai, UAE)
February 2018 - January 2020
- Frito-Lay (TX & NC, USA)
May - July 2020; January 2018
- Shamrock Foods (Phoenix, AZ, USA)
June - July 2020
- Tesla (Fremont, CA, USA)
December 2017
- Walmart Dairy-Deli (OH & AL, USA)
August 2017; June - July 2017

Projects with MCS, Controls and Mech:

- Amazon
- MDW7, PHX3 & SAT2 (IL, AZ & TX, USA)
December 2017; September - November
2017; December 2016
- Walmart (TX & VA, USA)
May 2017; March - May 2017

Job description:

Delivering intralogistics projects (Multishuttle) in Central Europe. End-to-end from control concept to handover.

Responsibilities:

- Definition of control architecture and specs
- Creation and configuration of PLC programs
- Lead FAT/SAT and preparations for post go-live
- System commissioning and documentation (DoO)
- Coordination with in-house and client's teams
- Management of scope, changes and risks
- Training of customer personnel and service staff

Tools:

SIMATIC STEP 7 (S7-1500, WinAC RTX F), S7
Distributed Safety V5.4, WinCC Flexible 2008
Advanced, SEW MOVITOOLS, TIA Portal V16 & V17

Job description:

Mechatronic implementation of post-installation and start-up phases of intralogistics automation projects for high-profile customers in the United States and the United Arab Emirates

Responsibilities:

- Commissioning of DMS (shuttle aisles) and conveyor areas (cabinets) on the PLC SW level
- Pre-commissioning and installation check-up of electrical wiring, electronics setup on cabinet and area bus infrastructure
- On-site support for Integration, Throughput tests, Go-Live and Ramp-Up (system optimization)
- Training of customer personnel and service staff
- Mechanical optimization of conveyor sections

Tools:

SIMATIC STEP 7 (WinAC RTX F, S7-400), S7
Distributed Safety V5.4, WinCC Flexible 2008
Advanced, SEW Drive Motion Studio, Datalogic
Genius; RSLogix v20.03, RSLinx, ASIMON V3

RV Construcciones y Servicios

Project Manager

June 2015 - April 2016, Mexico (field)

Project Engineer

January 2013 - May 2015, Mexico

- Led a 25-person team on an electrical infrastructure field project; managed budgets, vendors and daily customer communication.
- Designed customer-specific project solutions; supported cost definition in RFPs.

EDUCATION & CERTIFICATIONS

Instituto Tecnológico y de Estudios Superiores de Monterrey

Master of Science in Electronics Engineering and Telecommunications

August 2013 - May 2015

Bachelor's Degree in Mechatronics Engineering, specialized in Applied Robotics

August 2008 - December 2012

- CENEVAL's Excellence in Performance Award - EGEL
- Semester abroad at Hochschule Esslingen, Germany (March - July 2011)

Certified: SAFe 6 Product Owner / Product Manager (2025)

SKILLS & INTERESTS

Advanced: Siemens TIA Portal, IEC 61131-3 (LAD, ST/SCL, FBD, STL), S7 PLCs (S7-1500, S7-400, WinAC RTX F), S7 Distributed Safety, commissioning, FAT/SAT, acceptance and throughput testing in safety-critical environments, reqs & acceptance per V-model, status/risk reporting, quality gates, customer documentation (Description of Operation)

Strong: OPC UA, MQTT, WinCC, SCADA, fieldbuses (PROFINET, PROFIBUS, CAN, TCP/IP, ASi), MES/MOM interfaces to PLCs, I/O mapping and testing, SEW drives (MOVITOOLS), robotic integration, industrial tech architecture, Git, CI/CD for PLC & tooling (scripted builds & lint), Jira, Scrum, Agile, MS Project

Working knowledge: Rockwell Automation's Studio 5000 Logix Designer (Allen Bradley), EtherCAT, TwinCAT, Python, UE5 digital twins, pose estimation, robot kinematics & communication, Labview, C++, C#, MatLab, AutoCAD, NX, ECAD, SAP ERP, Lean (value stream, takt, bottleneck RCA, kaizen)

Languages: Spanish (native), English (C2), German (B2), French (A1)

Interests: Football, AI & home automation, drums