

# Anderson Uceta

Automation & Software Engineer | Industrial IoT | Data & AI

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## PROFESSIONAL SUMMARY

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Mechatronics Engineer with 7+ years of experience bridging industrial automation and software development. Deep expertise in PLC programming, SCADA systems, and industrial instrumentation, combined with growing capabilities in Python, JavaScript, data science, and AI/ML. Proven track record coordinating multi-plant automation projects across Central America and the Caribbean, integrating OT systems with digital platforms to drive operational efficiency. Passionate about Industry 4.0 and the convergence of physical systems with intelligent software.

## TECHNICAL SKILLS

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**Industrial Automation:** PLC Programming (Ladder, FBD, STL), SCADA/HMI Systems, Industrial Instrumentation & Sensors, Industrial Networks & Fieldbus (Profibus, Modbus, EtherNet/IP)

**Software & Programming:** Python (automation scripts, data pipelines, ML), JavaScript (Node.js, basic web), SQL / MySQL, C# (Microsoft Learning)

**Data & AI:** Data Science fundamentals, Machine Learning (scikit-learn, pandas, numpy), Power BI, Excel Advanced

**Microsoft Platform:** Power Apps, Power Automate, Power BI, Azure (fundamentals)

**Engineering:** System design, commissioning & startup, process optimization, preventive & corrective maintenance, technical documentation

**Languages:** Spanish (Native) | English (Professional Working Proficiency)

## PROFESSIONAL EXPERIENCE

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### Industrial Automation Engineer / Applications Coordinator

**CMI – Centroamérica y el Caribe** | 2023 – Present | Hybrid / Regional

- Lead automation initiatives across multiple production facilities, coordinating with cross-functional teams in maintenance, operations, and engineering to standardize PLC-based control systems.
- Design and implement industrial automation solutions that improved line reliability and reduced unplanned downtime.
- Architect SCADA integrations with data platforms enabling real-time production monitoring and automated KPI reporting.
- Develop Power BI dashboards, SQL queries, and Excel models to support data-driven operational decisions.
- Drive continuous improvement projects applying Industry 4.0 principles: digitizing manual processes and connecting OT/IT layers.

### Educational Robotics Coordinator

**Colegio Calasanz** | 2020 – 2023 | Santo Domingo, DR

- Designed and delivered robotics and automation curricula covering industrial control fundamentals, PLC logic, and programming.
- Introduced students to automation, engineering problem-solving, and hands-on project-based learning.

## **STEAM Educator (Automation & Robotics)**

**IGLOBAL / Ministerio de Educación** | 2020 | *Dominican Republic*

- Supported national STEAM initiatives through teacher training and technical workshops on robotics and automation fundamentals.

## **Maintenance Technician**

**B. Braun Dominicana** | 2019 – 2020 | *Santo Domingo, DR*

- Designed and implemented an inline tubing cutter machine (V1921) — a full project cycle from concept to commissioning in a regulated medical device environment.
- Performed preventive and corrective maintenance on manufacturing equipment ensuring production continuity.

## **EDUCATION**

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### **B.Eng. in Mechatronics Engineering**

**INTEC – Instituto Tecnológico de Santo Domingo** | 2021 – 2025 | *Santo Domingo, DR*

### **Associate Degree in Mechatronics**

**ITLA – Instituto Tecnológico de Las Américas** | 2017 – 2019 | *Santo Domingo, DR*

### **Technical Baccalaureate in Mechatronics**

*Secondary technical education with focus on industrial automation fundamentals*

## **CERTIFICATIONS & CONTINUOUS LEARNING**

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- FreeCodeCamp – Responsive Web Design, JavaScript Algorithms & Data Structures, Data Analysis with Python
- Microsoft Learn – Python, C#, Power Apps, Power Automate
- Data Science & Machine Learning – scikit-learn, pandas, numpy (self-directed, 2024–2025)
- Industrial Automation & PLC Programming – ongoing professional development