

EXPERIENCE: Industrial Automation Engineer

5. Ingautin de Colombia. Rockwell Automation Integrator 12-21-2015 TO 6-6-2017
Projects Engineer: Contribution to automation, supervision of industrial processes and design, testing and installation of electrical control panels.
Integration with electro-pneumatic sensors, hydraulic actuators, PLC configuration, HDMIs and AC/DC controllers. Network configuration and remote access support using Ethernet, RS-232, RS-485, Remote I/O, VLAN and VNC.

EDUCATION / PUBLICATIONS

- 1. PhD. Engineering of Robotics and Mechatronics Systems Instituto Politécnico Nacional
- 2. MSc. on Mechatronics - Universidad Militar Nueva Granada
- 3. bachelor's degree in Mechatronics Engineering - Universidad Militar Nueva Granada

Google Scholar: https://scholar.google.com/citations?user=JQe3PjwAAAAJ&hl
ORCID ID: https://orcid.org/0000-0002-8239-2743 , order by most cited:

- 1. Serious Game Design of Virtual Reality Balance Rehabilitation with a Record of Psychophysiological Variables and Emotional Assessment (year 2020).
- 2. Contribution of virtual environments to the perception of balance rehabilitation tasks: a psychophysiological study (2019).
- 3. Prototyping interactive multimodal VR epidural administration (2019).
- 4. Driver assistance system for people with reduced mobility in upper limb through electromyography signals (2019).
- 5. Two DoF robotic platform for balance rehabilitation tasks (2021).

ACHIEVEMENTS – CERTIFICATIONS

Certification	Achievements (Diploma Linked)
Scholarship	Fully funded PhD (México), and extra-stipend stay in U. Massachusetts Lowell (USA)
Languages	EF Standard English Test (EF SET) EF Standard English Test (EF SET) Issued Aug 2023
Technology	AWS: Computing, Storage and Database ID 327a523c-ab73-4afc-a3bc-a74387
Data Analysis	Google Data Analytics Certificate: Issued Jun 2023 Credential ID GEEX6ZSRP8SX
UX Design	Curso de Lean UX: Issued Apr 2023 ID 2c9f162e-8e34-467a-b3ab-2e33a53b75b6
Research	Understanding Research Methods: Issued Apr 2023 Credential ID CZ2L2SREVSQE
Management	Project Management B&M

TOOLS AND APTITUDES

Programming Languages	C#, Java, Python, SQL, LabVIEW, MATLAB, Java Script
Frameworks and Development Tools	Docker, Fast API, Git, Selenium, Unit Testing, Visual Studio Code
Web Technologies	HTML, Network Switches
Artificial Intelligence (AI) and Data Science (DS):	Artificial Intelligence (AI), Biomarkers, Computer Science/Data Science, Machine Learning (ML), Natural Language Processing (NPL), Signal Processing, Virtual Reality (VR), Extended Reality (XR)
Designs and Simulating	Computer-Aided Design (CAD)/CAM, Inventor, SolidWorks
Control and Automation Systems	DAQ's, Ladder, Programmable Logic Controller (PLC), rslogix500/5000, Factory Talk View, Allen-Bradley, TIA portal Siemens, EPLAN
Skills	Development, Power Query, Technical Leadership, Trend Analysis, Workbench, studio5000, AutoCAD, Power BI, Tableau, Alteryx, Power Apps, Unity, VMware, DWService, MySQL

INTERESTS

1. Research and development (R&D)

2. Healthcare

3. Automotive industry

4. Renewable energy

5. Software (SaaS)

LANGUAGES

English Upper intermediate C1 iTEP Certified, equiv.to a 100 TOEFL IBT. Spanish Native. German Basic.