



Néstor Sanabria

ELECTRONIC ENGINEER

PROFILE

Electronics engineer graduated from the University of Pamplona, with extensive knowledge in industrial control, instrumentation, and embedded systems. I have strong skills in the design, implementation, and optimization of control systems for industrial processes, as well as in programming PLCs, Arduino, ESP32, Raspberry Pi, and integrating automation systems. My training enables me to research, develop, and apply advanced technologies in the fields of electronics and mechatronics. Additionally, I have knowledge in FullStack development and artificial intelligence. I am proactive, with a focus on continuous improvement and innovation. With the ability to work in teams, lead projects, and communicate effectively with various areas of the company, I possess analytical thinking and strong problem-solving skills. I am committed to professional ethics and sustainable development, seeking to contribute to technological advancement and efficiency in industrial processes, while always maintaining a constant learning attitude and a desire to drive industry growth.

CONTACT

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LANGUAGES

- Spanish
- English

SOFT SKILLS

- Teamwork
- Effective communication
- Adaptability
- Creativity
- Leadership
- Innovation
- Autonomy
- Continuous learning
- Time management
- Decision-making
- Results-oriented
- Negotiation
- Conflict resolution
- Attention to detail
- Self-discipline

EDUCATIONAL TRAINING

Electronic engineering

University of Pamplona, Pamplona N. de Santander
2019 – 2024



INGENIERÍA ELECTRÓNICA

High quality institutional accreditation Resolution No. 018143 September 2021 MEN (Valid for 4 years)

High quality international accreditation April 2023 EQUAA (Valid for 4 years)

High quality accreditation of electronic engineering program Resolution No. 015159 August 2022 MEN (Valid for 4 years)

Academic Bachelor

Liceo General de Colombia, Villavicencio Meta
2010 - 2012

PROFESSIONAL SKILLS

- Industrial automation
- Power electronics
- Circuit design
- Control systems
- Industrial communication protocols
- Predictive, preventive, and corrective maintenance of electronic equipment
- PLC programming
- Electric motor control (VFDs, servo motors)
- Embedded systems development with microcontrollers (PIC, Arduino, ESP32, Raspberry Pi)
- Signal analysis and digital control systems
- Monitoring and control of power systems (UPS, inverters, photovoltaic systems)
- Industrial networks
- Programming languages
- Web design
- Full-stack programming
- Databases
- React
- Node.js
- MongoDB
- JavaScript
- Python
- Artificial Intelligence

ADDITIONAL TRAINING

Full-Stack Web Development Bootcamp



TalentoTech - MINTIC, Bogotá | 159 Hours, 2024

I participated in a project to create a basic social network, implemented with React for the frontend and Node.js for the backend. During the course, we worked with various libraries and authentication systems, as well as integrating a MongoDB database. I developed skills in creating REST APIs, state management, and session handling, focusing on Full Stack architecture.

Developing Interpersonal Skills

Coursera - IBM, Online Course | 3 Hours, 2024



A course focused on improving effective communication, active listening, and conflict resolution in the workplace, as well as strengthening trust and increasing influence within the team.

DevOps on AWS and Project Management

Coursera - AWS, Online Course | 3 Hours, 2024



A course on the use of DevOps in AWS and project management, focusing on use cases in companies and the differences between Agile and Waterfall methodologies.

INDUSTRIAL ELECTRICAL NETWORKS

Cofrem Technical Institute, Villavicencio Meta | 40 Hours, 2016

A course on the design, installation, and maintenance of industrial electrical networks, including the use of power distribution systems, circuit protection, and electrical safety regulations in industrial environments.

ELECTRICAL MECHANICS

Cofrem Technical Institute, Villavicencio Meta | 40 Hours, 2016

A course on the installation and maintenance of electrical systems in industrial machinery. I learned to identify and troubleshoot electrical issues, interpret electrical schematics, and apply safety standards when handling electrical

FEATURED PROJECTS

Thesis: "Generative Adversarial Networks (GANs) in the Generation and Detection of Fake Faces for Biometric Security Applications"

In this project, I researched the use of GANs for generating and detecting fake faces in biometric security applications. I utilized Python with Keras and TensorFlow libraries in Google Colaboratory to develop and evaluate predictive models.

Project "GamaEcosystem"

Winner at the advanced level of the TalentoTech Bogotá 2024 virtual Hackathon - MINTIC: Created a web platform to monitor and control the growth of frailejones in the Guerrero páramo using IoT.

Project "Automation of a BATCH Reactor for Biodiesel Production from Waste Vegetable Oils"

In collaboration with Chemical Engineering students, presented at the first "Automation and Process Control Project Fair" at the University of Pamplona.