

# ALEXANDER ARANCIBIA

Mz A1 Lt41 Urb Inresa Callao, Peru

☎ +51991285679 ✉ [alexanderarancibia37@gmail.com](mailto:alexanderarancibia37@gmail.com)  [linkedin.com/in/alexanderarancibia](https://www.linkedin.com/in/alexanderarancibia)

## Profile

---

With solid experience as an electronic engineer for three years, I have consolidated my path towards the exciting world of software development. My focus is on web and mobile development, where I combine my technical skills with my passion for creating innovative and efficient solutions. I am enthusiastic about exploring new opportunities to drive the development of high-performance applications.

## Education

---

### National University of Engineering

August 2015 – February 2021

*Bachelor's Degree in Electronic Engineering*

*Lima, Peru*

Ranked in the top 5% in academic performance, awarded the Pronabec permanence scholarship. Participated in projects such as developing a heat exchanger using neural networks and a hexapod robot for rescue operations.

## Technical Skills

---

**Programming Languages:** Python, C++, Javascript, Dart, Ladder, Structured Text

**Data Visualization:** OpenSearch, Grafana, Akenza, PowerBI, FlutterFlow, Quicksight, PyQt5, KivyMD

**Databases:** MySQL, SQL Server, PostgreSQL, Firebase

**Communication Protocols:** MQTT, WebSocket, HTTP, Ethernet/IP, Modbus

**PLC Programming:** Micrologix, ControlLogix, S7-1200, Logo Soft

**SCADA and OPC Servers:** Ignition, Iconics, Intouch, WinCC, Factory Talk, KeepServer, RS Linx Gateway, Matrikon

**Control Panel Design:** AutoCAD Electrical, EPlan

## Professional Experience

---

### Veggie Good

01/2021 - 03/2024

*Application Engineer*

*San Isidro*

- Led the design, development, and deployment of an integrated management application for a hydroponic system. Supervised a multidisciplinary team to ensure project success from conception to implementation.
- Reduced the initial cost of the electrical panel by 15% by designing a constant pressure system with pump alternation.
- Integrated AWS OpenSearch and its API into a robust control panel based on Flutter, deployed on the AWS cloud, enabling real-time monitoring and control of all variables in the hydroponic system, ensuring scalability, security, and continuous availability.
- Designed and implemented a cost-effective expansion module, increasing controller capabilities and ensuring compatibility via Modbus RTU communication.
- Performed programming and electronic circuit design for microcontrollers in IoT devices, significantly improving system efficiency.
- Innovated an alert mechanism that triggers timely mobile notifications for system failures, proactively preventing potential issues.

### Freelancer

08/2020 – Present

*Software and Hardware Developer*

- Developed an application for the control and monitoring of fire alarm panels for a Chilean company, using FlutterFlow and Firebase for agile cloud deployment. This project enabled rapid implementation and ensured efficient monitoring of security systems.
- Participated in Alarm Testing for Oxy, focused on the New Mexico Facility, using specialized Iconics software to ensure the integrity and efficiency of security systems.
- Designed and developed a monitoring and control system for Honeywell Notifier 320 fire alarm panels, enabling centralization of all panels on the Google cloud.
- At "2S Ingenieros", participated in the installation and configuration of System 800xA on the aspect and connectivity servers at "El Brocal" mine. Additionally, contributed to the integration of the Water Pumping System into System 800xA at "Catalina Huanca" mine.
- Collaborated with Intilab by developing a Python-based deep learning algorithm for lung disease classification using Tensorflow, Pandas, and Sklearn.
- At "2S Ingenieros", participated in the installation and configuration of System 800xA on the aspect and connectivity servers at "El Brocal" mine. Additionally, contributed to the integration of the Water Pumping System into System 800xA at "Catalina Huanca" mine.

- Collaborated on Pepsico's Efficiency project, gaining proficiency in Intouch and Inventor software. Played a key role in implementing technical improvements.
- I have been working as a WordPress developer for 4 years, specializing in the development, customization, and maintenance of websites. Some of my created websites are [huarmis.org](http://huarmis.org), [creadilatam.com](http://creadilatam.com), [anjsports.com](http://anjsports.com), [emetstudio.com](http://emetstudio.com), [ambientalpe.com](http://ambientalpe.com), [airtek.solutions](http://airtek.solutions), [daesurmotors.com](http://daesurmotors.com), [casaalinmobiliaria.pe](http://casaalinmobiliaria.pe).