

# Jhonatan David Macazana Huaringa

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Student of the tenth grade of Electrical Engineering currently in the upper third of the branch. I am interested in low power embedded systems in the IoT and IIoT field. I have been part of the development team of the “El Aire Que Respiras” project funded by UTEC and I am currently working with IoT applications for remote areas.

## PROFESSIONAL EXPERIENCE

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**Nextmedicall — Certificatek — Linkop, Lima, Perú**

September 2020 - Present

*Software Architect*

- I am in charge of creating secure workflows for the development team and keep the security and availability of the production servers *nextmedicall.com*, *certificatek.com*, *linkop.pe*.

**Empresa Siderúrgica del Perú S.A.A., Ancash, Perú**

Enero - Julio 2020

*Project: Asset Monitoring Central*

- The project consists of the design and implementation of a web application that allows the steel mill process variables historization and the generation of custom alarms. I was responsible for the entire application as a MERN stack developer.

## PROJECTS/RESEARCH EXPERIENCE

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**Air Quality measurement portable device**

*January 2019 - August 2019*

I have developed a flexible device for the measurement of CO, CO<sub>2</sub>, MP2.5 y MP10 along with UTEC.

Accomplishment: we mapped the air quality in several major points of Barranco and Lima Metropolitana. The acquired information can be found on the official website *elairequerespiras.pe*

**Temperature Monitoring Central**

*August - November 2018*

Design and implementation of an RF-based network of temperature measurement nodes. I was the developer of the RF communication firmware and the low power consumption design.

Accomplishment: I was the main speaker and author of the published paper on INTERCON 2019.

## PROFESSIONAL FORMATION

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**Universidad de Ingeniería y Tecnología - UTEC**

*2016 - Present*

Electrical Engineering Department - Upper third

## TECHNICAL ABILITIES

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**Model and Analysis**

MATLAB, Eagle, Python, AutoCad, Ms Office

**Programming & Software**

C++, C, HTML, SQL, Linux, MERNG stack

**Languages**

English, Spanish

## OTHER ACTIVITIES

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**Vicepresident of the IEEE CASS UTEC student chapter**

*August 2019 - Present*

Promote research and development in the circuits and systems area of the Electrical Engineering Department.

**Volunteer on Educa Impacta Crece in the “Fe y Alegría N24” school**

*March - July 2018*

Develop socio-emotional skills in children so they can have better tools in their future.

**Instructor on Ciencia con Corazón in the “I.E. Leoncio Prado” school**

*March - July 2018*

Promote the technology study through projects with Arduino to youth in low-income areas.

**Academic tutor for risk academy students of the Signals and Systems Analysis course from UTEC**

*March - July 2018*

Provide tools for academy risk students to improve their learning.

**Volunteer at “I.E.P. Jesús La Roca”**

*2012 - 2016*

Organize Christmas events for children from remote communities in the Sierra de Lima.