Roger Gustavo Huauya Mamani

Bachelor of Science in Mechatronics Engineering

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Social Network

- Linkedin
- Github

Languages

🇵🇪 Spanish	● ● ● ● ●
🇺🇸 English	● ● ● ● ●
🇫🇷 French	● ● ● ● ○

Soft Skills

Empathy	● ● ● ● ●
Teamwork	● ● ● ● ●
Extrovert	● ● ● ● ○
Curiosity	● ● ● ● ○

Experience

2020–Present — **Robotics Engineer** — *MDP consulting*

Currently I am working at MDP consulting SAC. I am working in a drone project development in order to solve real world problems using technology. This project demands knowledge in programming in C, C++ and Python. Moreover, I work in developing electronic design, control system algorithms and computer vision.

2017–2019 — **Researcher** — *LIIARPI*

In the laboratory of artificial intelligence, robotics and image processing (LIIARPI), I developed 3 formative research projects financed by the vice-rectorate of research of the National University of Engineering. These projects were developed by applying digital image processing and artificial intelligence. Two of the projects I worked on have been published.

Education

Undergraduate

2015 – 2019 — **Mechatronic Engineering** — *Universidad Nacional de Ingeniería*

-Outstanding student (top tenth) in every academic semester during my undergraduate education.

-Researcher and developer of research projects related to robotics, design control systems and artificial intelligence

Research projects

2019 — Development of a software application for risk analysis in floods caused by alluviums and urban growth through image processing techniques and automatic learning

2018 — Development of neural generative adversarial neural networks applied in the generation of biomedical brain imagery obtained by magnetic resonance

2018 — Detection of cancerous lung nodules in low-dose CT images using digital image processing and machine learning

Publication

2020 — **A Comparison of Machine Learning Classifiers for Water-body Segmentation Task in the PeruSAT-1 Imagery** — *BTSym 19*
DOI:10.1007/978-3-030-57548-9_6

2020 — **A brief survey on deep learning methods for lung cancer detection using computerized tomography scans** — *CHILECON 2019*
DOI: 10.1109/CHILECON47746.2019.8987722

2018 — **High-Resolution Generative Adversarial Neural Networks Applied to Histological Images Generation** — *ICANN 2018*
DOI: 10.1007/978-3-030-01421-6_20

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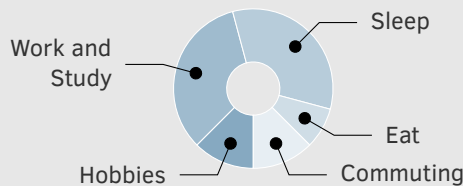
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About me ————

I am a mechatronic engineer graduated from the National University of Engineering - Peru. I consider myself diligent, responsible, humble and curious and someone who is always willing to learn constantly.

My main interests are robotics, artificial intelligence, competitive programming, and control systems.

In my leisure time, I usually play video games such as COD-Warzone. I also like to watch movies, go out with close friends and spend time with my family. I also like to spend my free time in building and flying FPV drones.

My day

- Sleep
- Work and Study
- Eat
- Hobbies
- Commuting

Programming languages ————

Python

C/C++

Java

Matlab

Android Studio Java

Prizes and honorable mentions

2021	**IEEExtreme 15.0 - 51th place** 51th place overall ranking out of over 5570 teams worldwide	IEEE
2019	**IEEExtreme 13.0 - 84th place** 84th place overall ranking out of 4134 teams worldwide	IEEE
2017	**Honorable Mention** 6th place ACM ICPC - South America/South Regional Contest 2017	ACM-ICPC

Leisure activities

Foreign Languages	Study French twice a week
Sports	Run frequently and practice dancing
Videogames	Sometimes I play COD Warzone
Volunteering	Active committee member of ASPEH (Hemophiliac peruvian association). I support the development of the activities carried out by the association in order to integrate our members. I also support their social media

Certificates

Engineering programs

2017	**Introduction to Embedded Systems with PIC-Level I Microcontrollers** Fundamentals of programming microcontrollers in Assembler and C	ISA
2017	**Profesional en SOLIDWORKS** Design of mechanical parts, assembly and finite element simulations	INFOUNI

Languages

2021	**TOEFL ibt Score: 105** Listening: 26, Reading: 28, Writing: 27, Speaking: 24	ETS
2020	DELF B1	Ministère de l'Éducation nationale - France
2017	**Advanced Program of English** Certificate of completion of the advanced level at the Peruvian-American Cultural Institute (ICPNA)	ICPNA

Leadership

2019	Youth Leadership workshop 2019 - Bangkok, Thailand	World Federation of Hemophilia
2016	Workshop: "Learning to lead in an organization"	Centro Cultural Avanzada Tecnológica - UNI

March 6, 2022 Huauya Mamani   **Roger Gustavo**