

Grover Aruquipa

Mechatronics | Engineer



About me

I am mechatronics engineer passionate about parallel robots, control and artificial intelligence applied in micro-robotics.

Contact

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 Grabcad: Grover Aruquipa

Languages

English - Full Proficiency
 Spanish - Native Language
 French - Basic Knowledge
 German - Basic Notions



EDUCATION

2021-
2023(Ongoing)



2020-
Ongoing



Master Degree

Besancon, France

Universite Bourgogne-Franche-Comte

Msc. in Electrical Engineering : Smart Integrated Systems - Specialization: Robotics and Micro-Robotics
Average.

Master Degree

La Paz, Bolivia

Master in Mechatronics Systems

Postgraduate- Waiting for thesis presentation
Diploma in Industrial Automation, Diploma in Internet of Things, Diploma in Robotics, Diploma in Machine Learning.

2019-2022



Engineer Specialization

La Paz, Bolivia

Bolivian Catholic University

Postgraduate:Robotics and Automation
Final project.

Final Project: Degree: -/100

2014-2019



Engineer Degree

La Paz, Bolivia

Bolivian Catholic University

Undergraduate: Mechatronics Engineer
Engineering thesis.

Degree: 92/100

WORK EXPERIENCE

2022-Today

Femto-ST(CNRS UMR 6174)

Besancon, France

Research Intern

Researching in parallel robots for micro-manipulation.

2021

3 Months

Sencon.Srl

La Paz, Bolivia

Computer Vision Engineer

Computer vision solutions for the Anomaly Detection.

2021

4 Months

KTH Royal Institute of Technology

Virtual

Data Scientist

Developing analysis of data-set for environment impact.

2020

6 Months

HITACHI-ABB

Zurich, Switzerland

Graduate Research Intern

Analysis of Complex Datasets of high voltage circuit breakers

PUBLICATIONS

Journal Article

An IoT architecture based on the control of Bio Inspired Manufacturing System for the Detection of Anomalies with Vibration Sensors, Grover Aruquipa, Fabio Diaz, *ScienceDirect*, <https://doi.org/10.1016/j.procs.2022.01.242>

Conference Article

Analysis of Algorithmic Trading with Q-Learning in the Forex Market, Grover Aruquipa, Gabriel Rojas, *IEEE-2021 International Conference on Emerging Smart Computing and Informatics*, 10.1109/ESCI50559.2021.9396948

Conference Article

Design and Implementation of a Delta Robot Based on FPGA for the Automation of the Collection of Solid Products, Grover Aruquipa, Gabriel Rojas, *IEEE - International Conference on Industrial Engineering, Applications and Manufacturing*, 10.1109/ICIEAM51226.2021.9446417

Conference Article

Design and Manufacture of a Delta Type Parallel Robot from the Study of Materials, Grover Aruquipa, Gabriel Rojas, *IEEE - 2021 IEEE 12th International Conference on Mechanical and Intelligent Manufacturing Technologies*, 10.1109/ICMIMT52186.2021.9476134

— Principal Soft Skills and Strengths —

Curiosity

Flexibility

Ability to Plan and Organize

Autonomy

Adaptability

Eye for Details

Problem Solving

Team Working

Professional Skills

Bio-Inspired Algorithms

Screw Theory

Control Systems

Parallel Robots

Synthesis of Mechanism

Other Interests

- Research📖

• 3D Printers🖨️

• Programming💻

• Trading📈

• Volunteer👉

• Salsa Dance💃

• Gym🏋️

Download My CV

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📖 ACADEMIC PEER REVIEWS

I did academic peer review for the following journals:

- **Editor SETRE**, September 2021;
- **ISM 2021**,ISM(International Conference on Industry 4.0 and Smart Manufacturing (ISM)), November 2021;

💻 INFORMATION TECHNOLOGY SKILLS

Data Analysis	MATLAB : <i>Highly Specialized</i> R-studio : <i>Highly Specialized</i> Wolfram alpha : <i>Intermediate</i>
Modeling and Simulation	Simulink : <i>Highly Specialized</i> Solidworks : <i>Highly Specialized</i> PTC-CREO : <i>Intermediate</i> Ansys : <i>Intermediate</i> Labview : <i>Highly Specialized</i> Altium - Proteus : <i>Intermediate</i>
Frameworks	OpenCV : <i>Advanced</i> Tensorflow, Pytorch : <i>Advanced</i> Dash, Flask, Django : <i>Advanced</i> ROS and ROS2 : <i>Advanced</i>
Office Automation	MS Office (Excel, Word, PowerPoint) : <i>Highly Specialized</i> LaTeX : <i>Highly Specialized</i>

</> PROGRAMMING LANGUAGES

- **Matlab**: Highly Specialised

• **C/C++**: Advanced

• **Python**: Highly Specialised

• **Java**: Intermediate

• **SQL**: Intermediate

🌟 CERTIFICATES

	<ul style="list-style-type: none">• IBM AI Engineering (<i>Coursera</i>, 2022)
	<ul style="list-style-type: none">• Generative Adversal Networks (<i>Coursera</i>, 2022)- Specialization• Deep Learning (<i>Coursera</i>, 2020)-Specialization• DeepLearning.AI TensorFlow Developer (<i>Coursera</i>, 2020)- Specialization
	<ul style="list-style-type: none">• End-to-End Machine Learning with TensorFlow on Google Cloud (<i>Coursera</i>, 2020)- Course• Machine Learning for Trading (<i>Coursera</i>, 2020)-Specialization
	<ul style="list-style-type: none">• A Hands-on Introduction to Engineering Simulations (<i>Cornell University</i>, 2020)
	<ul style="list-style-type: none">• Reinforcement Learning Specialization (<i>University of Alberta</i>, 2020)• Mathematics for Machine Learning Specialization (<i>Imperial College London</i>, 2020)• Developing Industrial Internet of Things Specialization (<i>University of Colorado Boulder</i>, 2020)• Digital Manufacturing & Design Technology Specialization (<i>University at Bufal</i>, 2020)• Digital Marketing Specialization (<i>University of Illinois</i>, 2020)

👤 Volunteer activities

- **Tu Beca Bolivia-4 months ongoing**: Helping talented students to find scholarships.

• **HOPE Worlwide 2016-2021**: Volunteering for families in need in Bolivia.