



# Aarón Juárez

Mechatronic engineer, ROS, computer vision, IA and full stack developer.

## Contact

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Mexico, CDMX

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## Skills

**Front-End:** HTML, CSS, JavaScript, React, React Hooks, React Router, Next.js, Framer Motion, Styled Components.

**Back-End:** Java, Node JS, Python, C#, C++.

**Mechatronic:** ROS, Matlab, SolidWorks, LabView

**OS:** Windows, Linux

**Cloud:** Azure, AWS

**Other:** AI (TensorFlow), Computer Vision (OpenCV)

**IDE:** Visual Studio Code

## Top Skills



**Front-End**

Most used:  
React.js



**Back-End**

Most used:  
Javascript



**IDE**

Most used:  
Visual Studio Code

## Summary

I'm a Mechatronic Engineer at UPIITA from México, I love development, music and graphical design.

I worked one year and a half at Intevolution developing intelligent bots with Javascript, Azure and programming simple front-end interfaces. I made my social service and engineering final work at CINVESTAV Zacatenco developing with ROS some computer vision and mobile robot control nodes.

I can work stationary, hybrid and remotely (preferably), both full-time and part-time.

Please take a look at my portfolio: <https://my-portfolio-rafalamao.vercel.app/>

## Experience

Intevolution  
Software Developer  
2020 - 2021 (1 year)

## Education

Centro de Investigación y de Estudios Avanzados del IPN  
Social service, ROS, Robotics, and Automation Engineering  
(February 2020 - May 2022)

Unidad Profesional Interdisciplinaria en Ingeniería y Tecnologías Avanzadas del IPN  
Bachelor in engineering, Mechatronics · (2016 - 2022)

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Centro de Estudios Científicos y Tecnológicos No. 7

“Cuauhtémoc” del IPN

Technician, Electrical installation and maintenance · (2012 - 2015)

## Projects

- **Simultaneous Localization and Mapping Implemented on a mobile robot for exploration disaster affected areas (ORB\_SLAM2 3D Map Plotter React Webpage):** Web page made with ReactJs that has the objective of graphing a 3D point cloud hosted in a GitHub repository, data was generated with ORB\_SLAM2.
- **Virtual Assistant:** Develop of a virtual assistant inside of Intevolution, this bot helps manage the students and teachers process, using pure Javascript and Azure services.
- **Hector Quadrotor Port:** Due hector quadrotor (drone simulator) only works on ROS melodic version; I generated a port to work with ROS Noetic.
- **Computer vision project:** Develop of a computer vision project inside of Intevolution with Python and OpenCV on a raspberry with a RTSP camera.

## Languages

- English: B1
- Spanish: Native

## Strengths

- Ingenuity
- Ambition
- Responsibility
- Punctuality

## Interests

- Music
- Science
- Graphics design
- Technological development
- AI

## Other Skills

