



# Aarón Juárez

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

## 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

**The Rocket Code** - Full Stack Developer 2022 – 202X (current job)

**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 (UPIITA – IPN)**

Bachelor in engineering, Mechatronics · (2016 - 2022)

**Centro de Estudios Científicos y Tecnológicos No. 7 “Cuauhtémoc” del IPN**

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

## Contact

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## Skills

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

**Back-End:** JavaScript, Node JS, Python, C++, C, MySQL

**Mechatronic:** ROS, MATLAB, SolidWorks, LabView

**OS:** Linux, Windows

**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

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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 React.js 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.

Published articles

- Monocular 3D reconstruction of objects, using a camera on a drone.**  
<https://repository.uaeh.edu.mx/revistas/index.php/icbi/article/view/9272>
- Solving drone tasks in simulators.**  
<https://repository.uaeh.edu.mx/revistas/index.php/icbi/article/view/9273>

Languages

- English: B1
- Spanish: Native

Strengths

- Ingenuity
- Ambition
- Responsibility
- Punctuality

Interests

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

Other Skills

