

Juan Andrés Young Hoyos

PYTHON DEVELOPER · PROBLEM SOLVER

Medellín, Colombia

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Skills

Technical Languages Python, Arduino, Arduino Cloud, Onshape basic 3D modeling, OrcaSlicer, Git
Spanish, English

Competitions

Ingenio Robotics Competition (COVID Edition)

Envigado, Colombia

ROBOTICS COMPETITOR - HIGIA 2021

2021

- Designed and built a disinfectant-spraying robot using an **ultrasonic sensor** and **App Inventor** for remote control, addressing pandemic-related safety concerns.

Robotics Competition

Envigado, Colombia

FIRST PLACE WINNER - INGENIO 2022

2022

- Built and programmed a robotic arm car with **Arduino Leonardo**, LEDs, and **App Inventor**, capable of grabbing objects autonomously.
- Achieved first place in the local competition and qualified to compete in Bogotá.

Projects

Higiea Disinfectant Robot

Medellín, Colombia

PERSONAL PROJECT

2021

- Designed a COVID-19 disinfection robot using ultrasonic sensors and programmed with **App Inventor**.

Claw Robot

Medellín, Colombia

PERSONAL PROJECT

2022

- Developed a robust claw-arm robot using **Arduino** and **App Inventor**, tailored for object-grabbing competitions.

Driving Car with Xbox Controller

Medellín, Colombia

PERSONAL PROJECT

2024

- Created software to control a **Raspberry Pi 4**-based robotic car using a **bluetooth Xbox controller**.

Driving Jetson Nano Car with Xbox Controller

Medellín, Colombia

PERSONAL PROJECT

2025

- Created software to control a **Jetson Nano**-based robotic car using a **USB Xbox controller**.

Celsius to Fahrenheit Neural Network

Medellín, Colombia

ML MINI PROJECT

2024

- Built a minimal **TensorFlow** neural network with a single neuron to learn the conversion from Celsius to Fahrenheit.

Game Recommendations by Age

Medellín, Colombia

ML PROJECT

2024

- Developed a recommendation system using **scikit-learn** to suggest games based on user age profiles.

Education

EAFIT University

Medellín, Colombia

B.S. IN COMPUTER SCIENCE AND ENGINEERING

2023 - 2027

- Full scholarship called "Talento EAFIT"