Juan Andrés **Young Hoyos**

PYTHON DEVELOPER · PROBLEM SOLVER

Medellín, Colombia

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Skills

Technical   Python, Arduino, Arduino Cloud, Onshape basic 3D modeling, OrcaSlicer, Github
Languages   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"