

# Maria Santos

São Paulo, Brazil

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## Education

University of São Paulo

Master of Science in Robotics

Mar 2019 – Dec 2021 | São Paulo, Brazil

GPA: 9.2/10

Activities: Robotics Team Captain, IEEE Robotics Workshop Organizer, Research Assistant

Relevant Coursework: Robot Kinematics, Control Systems, ROS, Computer Vision, Machine Learning

Summer School: Carnegie Mellon University 2020 (GPA: 4.0/4.0)

## Work Experience

Robotics Engineer | Embraer | Jan 2022 - Present | São Paulo, Brazil

- Developed ROS-based navigation modules for autonomous drones.
- Integrated LiDAR and vision sensors for obstacle detection.
- Optimized control algorithms, improving flight stability by 30%.

## Skills

Languages: C++, Python, MATLAB

Frameworks: ROS, OpenCV, TensorFlow

Other Skills: SLAM, Path Planning, Sensor Fusion, Real-Time Systems

## Certificates

ROS Industrial Training

Coursera: Robotics Specialization

Udemy: Autonomous Mobile Robots

## Awards

Embraer Innovation Award 2023

USP Academic Scholarship

First Place – Brazilian Robotics Challenge