

# Cristóbal Arroyo

Forward-thinking Software Engineer with background working productively in dynamic environments

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## WORK HISTORY

### **Undergraduate teaching assistant (*Mobile robotics and Autonomous systems*);, Bogotá D.C.: Universidad de los Andes**

01/2022 - Current

Design and revision of laboratories and projects, principally on ROS Noetic and CoppeliaSIM with P3-DX pioneer robot.

### **Leader software engineer (artificial vision subsystem leader);, Bogotá D.C.: Robocol Uniandes**

01/2021 - Current

Lead an Artificial Vision team in Robocol since 2021. Distributed image processing and simple deep learning solutions on ROS.

### **University teaching assistant (Data structures and Algorithms);, Bogotá D.C.: Universidad de los Andes**

01/2021 - Current

Assisted teachers with classroom management of ISIS1225: Data Structures and Algorithms class. Works and project revision in a 35 student classroom.

## EDUCATION

### **Undergraduate Software engineer: Software Development;, Bogotá D.C.: Universidad de los Andes**

01/2022 - Current

Robocol Uniandes member. Captain of Artificial Vision Team.

### **Unity Game Developer: 3D Game Development, Bogotá D.C.: Naska Digital Colombia**

06/2018 - 06/2020

## PROJECTS

### **Autonomous navigation at Robocol: Rover project**

URC SAR submission: <https://www.youtube.com/watch?v=TP9aTucQJqE>

## SKILLS

Autonomous learning: 8/10

Teamwork Skills: 9/10

Python: 8/10

Web development: 6/10

ROS 1.x: 7/10

Java: 7/10

## ACCOMPLISHMENTS

Teached a ROS class: Based in EDX "Hello Real World with ROS" did a ROS class with this material:

[https://drive.google.com/drive/folders/1z\\_HcITQ5xpW8b7GLPpHIy-QTfK2xCBnJ?usp=sharing](https://drive.google.com/drive/folders/1z_HcITQ5xpW8b7GLPpHIy-QTfK2xCBnJ?usp=sharing)

Competitive Programming:  
Second place in Pre-Xtreme Colombia 2022

Simple obstacle evasion algorithm with depth:

<https://drive.google.com/file/d/1WJlNLLlmg1g3-upzUXgC2tz6IEyDyMZ0/view?usp=sharing>