Gabriel Nascarella Hishida

I'm a computer science student passionate about computer vision, robotics and deep learning.

CONTACT

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(take a better look at my projects)
gabrielnhn.github.io

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EDUCATION

2019 - 2023
BSc. Computer Science (GPA 90%)
Universidade Federal do Paraná

2023 - 2024*
MSc. Informatics
Universidade Federal do Paraná
Curitiba, Brazil

SKILLS

Python, C/C++, SQL

OpenCV, Pytorch, Sklearn, Kivy

Robot Operating System (1, 2)

English, Portuguese

AWARDS

RoboCore Experience 2023 Innovation Award
▶ Line Follower "Maquinaria Cerebral" - Innovati

PRESS/MEDIA

RoboCore Experience 2022 Highlights
(YouTube, the robot with a cowboy hat)

EXPERIENCE

Robotics Software Developer
Yapira UFPR Robotics Team
October 2019 – July 2023

➔ Set up ROS2 simulations using Gazebo (video) and lectured a *Robot Operating System* workshop at the Informatics Open Week.

➔ Used image processing to power camera-based line follower robots in competitions, participating in 8 robotics competitions (see **Awards**).

➔ Teached the Python programming language to elementary school students from grades 7 to 9.

Research Student
Laboratory of Vision, Robotics and Imaging
May 2022 – Present

➔ Research on 3D Gaze Estimation; calculating where people are looking in real time by using deep learning CNN models.
  ➔ Graduation thesis: "Look where you're going: Classifying drivers' attention through 3D gaze estimation" (PDF)
  ➔ Pre-print "VRI-GazeNet: 3D Gaze Estimation for Real-time Applications" (GitHub)

Software Development Intern
Automated Guided Vehicle Solutions
February 2022 – May 2022

➔ Developed a cross-platform app using Kivy, OpenCV and BeautifulSoup to scan QRCode URLs, scrape websites and organize financial data through Google Drive API and Sheets API.