



# JOÃO DIAS

ELECTRICAL &  
COMPUTER  
ENGINEER

## ABOUT

My main interests in the field are automation and robotics. I am a talkative person who easily integrates in group dynamics, always eager to learn and try new methods.

## EXPERIENCE WITH

- ABB Robots
- Microcontrollers (ATmega and STMicroelectronics)
- Linux
- Docker

## PROGRAMMING LANGUAGES

- Python
- C
- RAPID (ABB Programming Language)
- HTML
- PHP
- Javascript

## LANGUAGE SKILLS


- Portuguese Native
- English Level C2 Proficiency

## HOOBIES

- Home Automation
- Gym

## CONTACT ME

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 [Profile Website](#)

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## PROJECTS

### Master Thesis: Enhancing Indoor Localisation: a Bluetooth Low Energy (BLE) Beacon Placement approach

*Instituto Superior de Engenharia do Porto, Jan. - Dec. 2023*

- Developed and validated an algorithm for optimal Bluetooth beacon placement in indoor locations, enhancing positioning accuracy and efficiency across various sectors.

### Vigilance System

*Instituto Superior de Engenharia do Porto, Oct. 2021 - Jan. 2022*

- Linux distribution preparation for vigilance system using a webcam.

### Thesis Project: Front end Inventory System for DEE Equipment

*Instituto Superior de Engenharia do Porto, Mar. - Sep. 2021*

- Inventory system developed for internal components organization only accessed by registered staff members from DEE department.

### Smart Greenhouse

*Instituto Superior de Engenharia do Porto, Oct. 2020 - Jan. 2021*

- Smart Greenhouse controlled by a microcontroller using several sensors, such as LDR, temperature and moist as well as the respective actuators led, fan, heat resistor and water pump.

## EDUCATION

### Instituto Superior de Engenharia do Porto

*Master's Degree in Electrical and Computer Engineering - Automation and Systems*

- Year of Graduation: 2023

*Bachelor's Degree in Electrical and Computer Engineering*

- Year of Graduation: 2021

### Centro de Atividades Educativas dos Carvalhos

*English Level C2 Proficiency*

- Year of Graduation: 2022

## COMPETITION AND AWARDS

### Open Robotics @ISEP

*Industrial Robotics Manipulators 2023 - 1st Place*

*Industrial Robotics Manipulators 2022 - 1st Place*

### National Robotics Festival

*Senior League - Industrial Robotic Manipulators 2023 - 4th Place*

*Senior League - Industrial Robotic Manipulators 2022 - 3rd Place*