

# Victor Miguel de Moraes Costa

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## EDUCATION

### UFPE - FEDERAL UNIVERSITY OF PERNAMBUCO

B.Sc. IN COMPUTER ENGINEERING  
Feb. 2018 - Dec. 2022 (expected)

#### RELEVANT COURSEWORK

- Algorithms and Data Structures
- Computer Architecture
- Operating Systems
- Computer Networks
- Software Engineering

## LINKS

Github: /vmmc2

LinkedIn: /victor-miguel-de-morais-  
costa-3200b6175/

## SKILLS

### PROGRAMMING

2+ years:

C • C++ • Python

1-2 years:

Dart

Less than 1 year:

JavaScript • HTML • CSS • Haskell

### FRAMEWORKS

Flutter • Bootstrap • Bulma

### TECHNOLOGIES

Android Studio

### LANGUAGES

Portuguese (Native)

English (Fluent)

French (Beginner)

### AWARDS

- 3rd Place (in Brazil) - Google Hashcode (2021)
- 3rd Place - 2D Simulation Category in Brazilian Robotics Competition/CBR (2020)
- 4th Place - Microsoft Hackathon "Bot-A-ndo" a mão na massa (2019)
- 14th Place (in Brazil) - Google Hashcode (2019)

## EXPERIENCE

### ROBÔCIN | UNDERGRADUATE RESEARCHER

Nov. 2019 — Jan. 2021 | Recife - PE, BR

- RobôCIn is a research group focused on robotics and also a team that participates in competitions of this same field.
- Currently working in the 2D Simulation division and focused on developing the strategy of the agents of the team for the next competitions.

### PETLAB | UNDERGRADUATE RESEARCHER

Aug. 2019 — Nov. 2019 | Recife - PE, BR

- PETLAB is a research program maintained by UFPE in partnership with 3 laboratories: Voxar Labs, LIKA and SPG. Worked as a developer and learned about computer vision, OpenCV and different applications of cellular automata.

### UFPE | VECTOR AND LINEAR ALGEBRA ASSISTANT TEACHER

Aug. 2018 — Aug. 2019 | Recife - PE, BR

- Taught tutoring sessions for a class of 50 to 60 students. Also prepared lists of exercises, so the students could be more prepared for the exams of the class.

## PROJECTS

### VULCAN | A RISC-V INSTRUCTION SET SIMULATOR

May. 2020 — Sep. 2020 | Recife - PE, BR

- Vulcan is a development environment that unites an editor, an assembler and a simulator for programming in RISC-V Assembly language. It has support for several extensions of the RISC-V ISA. Also made a built-in debugger, so the users can easily find syntax errors in their code.
- Designed an intuitive and friendly user interface from scratch and realized it using Flutter.

### CINGAMES | A PROJECT FOCUSED ON INTEGRATING GAMES AND FPGA

Oct. 2019 — Dec. 2019 | Recife - PE, BR

- CInGames is a project that contains 3 different games that can be played at the Altera DE2i-150 FPGA Board. Worked on the development of the Genius game and was also responsible to develop the device driver, so that these games could be played in the board.

### GASOLINA: GREVE INFINITA | A MULTIPLAYER BATTLE-ROYALE GAME

May. 2018 — Jul. 2018 | Recife - PE, BR

- Gasolina: Greve Infinita is an online game that can be played by at most 4 players in a local server. After the development, the game was tested by freshman students.
- Responsible for the game art and for the development of the mechanics of the game.

### COMPETITIVE PROGRAMMING | A REPOSITORY FOR COMPETITIVE PROGRAMMING

Aug. 2018 — Present | Recife - PE, BR

- It's a project that contains solutions for several problems about algorithms and data structures from different online judges such as: UVa, Codeforces, SPOJ and more. It was made to help other students in order to solve these types of problems.