

# Victor Miguel de Moraes Costa

vmmc2@cin.ufpe.br | +55 81 995272379

## EDUCATION

### UFPE - FEDERAL UNIVERSITY OF PERNAMBUCO

#### B.Sc. IN COMPUTER ENGINEERING

Feb. 2018 - Dec. 2022 (expected)

Cum. GPA: 8.94/10.00

#### RELEVANT COURSEWORK

- Algorithms and Data Structures
- Computer Architecture
- Operating Systems
- Hardware-Software Interface
- Computer Networks

## LINKS

Github: /vmmc2

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

## SKILLS

### PROGRAMMING

Fluent:

C • C++ • Dart • Python • HTML

Familiar:

Haskell • Assembly x86 • CSS

Verilog • SystemVerilog

### FRAMEWORKS

Flutter

### TECHNOLOGIES

Android Studio

### LANGUAGES

Portuguese (Native)

English (Fluent)

French (Beginner)

### AWARDS

- 4th Place - Microsoft Hackathon "Bot-A-ndo" a mão na massa
- 14th Place (in Brazil) - Google Hashcode 2019

## EXPERIENCE

### ROBÔCIN | UNDERGRADUATE RESEARCHER

Nov. 2019 – Present | 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 our 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. I 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 find syntax errors in their code more easily.
- Designed a 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 a 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 game's mechanics.

### COMPETITIVE PROGRAMMING | A REPOSITORY FOR COMPETITIVE PROGRAMMING

Aug. 2018 - Present | Recife - PE, BR

- It's a project I made which 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.