

Jhonantans Rocha

Software Engineer

About

I am a Software Engineer, Automation and Control Engineer (Mechatronics) and a linux and computer science enthusiast.

During my graduation, I worked on researching projects with Rockwell PLCs, designing and implementing control algorithms in Structured Text, Ladder, and Function Blocks.

In 2011 I started working with low level languages, notably C/C++ and Assembly. Since then, I have dedicated myself to improving my knowledge of languages and paradigms, incorporating new concepts such as OOP and Real Time Programming, always aiming for code quality and commitment to best-practices.

In 2014, I joined the football team of humanoid robots UnBeatables, representing my university in the robotics competition, Robocup.

From 2016 to 2017 I am a developer on the team of Moringa Digital, one of the largest online advertising companies and web systems in Brasilia. There I have focused on mobile development using the latest hybrid tools such as Ionic 2, Cordova and IntelXDK.

As a fullstack developer, my responsibilities range from database planning to user interface implementation, server programming, API development and mobile application delivery.

Contact

- Github: github.com/jhonrocha
- Email: jhmrocha@gmail.com
- Fone: +55 62 981089953
- Linkedin: [linkedin.com/in/jhonantans-moraes-rocha-949051105/](https://www.linkedin.com/in/jhonantans-moraes-rocha-949051105/)
- Website: jhonrocha.com

Experience

Software Engineer

- *BairesDev*
- *Dec 2018 – Present*

Systems Analyst

- *Metrópoles Mídia e Comunicação*
- *Feb 2018 - Nov 2018*

Development and maintenance of a news communication systems. Major concerns were high availability, consistent quality and speed to final consumer.

- Front-End: Bootstrap, Ionic 2, Angular 4, Vue.js, Pug, Stylus
- Back-End: Wordpress, PHP and MySQL
- Operation: Amazon AWS (EC2, S3, Lambda, RDS)
- Code Integration: Git

Full Stack Developer

- *Moringa Digital*
- *Feb 2016 - Jan 2018*

Acting in the development of hybrid applications for Android and iOS, implementation of web systems and creation and maintenance of websites and APIs.

- System Development:
 - Back-End: ASP, Node.js and MySQL
 - Front-End: HTML5/Javascript
- Mobile Applications Development:
 - Hybrid Application Tools: Intel XDK, Cordova
 - Frameworks: Angular 1 & 2, Ionic 1 & 2

Member (Academic Team) at Robot Soccer Team

- *UnBeatables: UnB humanoid robot soccer team*
- *Sep 2014 – Aug 2016*

I was responsible for the network area, handling communication between robot-to-robot and robot-to-computer. I also worked in the area of movement and locomotion, expanding the set of gestures and actions of the robot player. Finally, I developed the structure of the behavior state machine, implementing the reaction to events autonomously and elaborating new roles for the player.

Technologies used:

- NAO Robot
- C++
- Python
- Communication Networks (UDP/TCP)
- Linux
- State Machines

Prizes:

- World Champion, Robocup 2015, Drop-In Only category
- World Champion, Robocup 2016, Drop-In Only category
- Latin American Champion, LARC/CBR 2015, Standard Plataform League
- Latin American Champion, LARC/CBR 2016, Standard Plataform League

Researcher (Academic Research)

- University of Brasilia (UnB)
- Jan 2014 - Dec 2016

Development and application of Fuzzy controllers, based on the Takagi-Sugeno method (TS), to an industrial-level plant controlled by a Rockwell CLP.

Technologies used:

- Fuzzy Logic
- PI Controller
- PLC Programming: Ladder, Structured Text, Function Blocks
- Matlab

Education

Mechatronics, Robotics and Control and Automation Engineering

- University of Brasilia
- Graduation 2011 – 2016

The course brings together knowledge in Mechanical, Electrical, Electronics and Computer Science aiming at the development of control and automation solutions for industrial and non-industrial environments. The points specially studied are:

- Control design and implementation
- PLC Programming
- Robotics
- Programming
- Mechanical Engineering
- Electrical Engineering
- Electronics

Languages

- Portuguese: Native
- English: Fluent
- Spanish: Intermediate

Interests

- Software Development
- Machine Learning
- Financial Programming