LUCAS COELHO FIGUEIREDO

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EDUCATION

Federal University of Minas Gerais

08/2015 - 06/2018

Masters in Electrical Engineering

Belo Horizonte, Brazil

Thesis: Human-robot swarm interaction on multi-robot coverage control with Virtual Reality

Rockstart Accelerator

08/2016 - 08/2016

Startup Acceleration Program Rockstart Smart Energy

Amsterdam, The Netherlands

Federal University of Minas Gerais

The University of Texas at Austin

03/2010 - 07/2015Belo Horizonte, Brazil

Bachelor in Control and Automation Engineering

08/2013 - 05/2014

Exchange Program in Electrical Engineering and Computer Science

Austin, USA

Federal Center of Technological Education

05/2007 - 12/2009

Technical Program in Electronics

Belo Horizonte, Brazil

EXPERIENCES

Hexagon Mining

11/2017 - Today

Software Specialist & Scrum Master

Belo Horizonte, Brazil

- · Main Python developer of the team
- · Responsible for the Scrum process, meetings, managing conflicts between team members
- · Designed and participated on the development of solutions for autonomous trucks on mining industry, including a high precision, GPS-based parking assist and a mission manager for autonomous trucks
- · Developed peer-to-peer communication using DDS solutions

Newatt Energy Systems

09/2015 - 08/2017

Co-Founder and CTO

Belo Horizonte, Brazil and Amsterdam, The Netherlands

- · Responsible for the technical decisions and relationship with partners and investors
- · Coordinated the application for Google Cloud Platform for Startups Program and received U\$ 100,000 in credits from Google
- · Managed the team for the implementation of the cloud structure in Node.js and Python
- · Implementation of embedded software in C++ for low power microcontrollers

Freelance Android Developer

08/2016 - Present

Development Leader

Belo Horizonte, Brazil

- · Managed the whole project, since client prospection, requirements proposal, value negotiation, development and delivery
- · Worked in combination with a designer to deliver functional and good looking apps

DTI Digital Technologies

10/2014 - 08/2015

IT Intern

Belo Horizonte, Brazil

- · Developed projects for supervisory systems, smartphone apps and administration systems in C#, Java and Android, following Agile methodology
- · Worked in internal tools for the company in direct contact with their top managerial staff

Multi-robot Systems Laboratory - Boston University

05/2014 - 08/2014

Summer Research Intern

Boston, USA

· Created algorithms for multi-robot systems applied in area coverage and autonomous exploration

- · Developed embedded software for mbed microprocessors in C++
- · Published academic results at ICRA 2015 and IJRR 2017

Computation and Robotics Lab - UFMG

10/2010 - 08/2013

Undergraduate Research Assistant and Electronics Technician Intern

Belo Horizonte, Brazil

- · Large experience in ROS, working on it since Diamondback version (2011) and becoming reference on ROS for labmates and professors
- · Designed and assembled five robots for indoor experiments based on the Open Hardware project Turtlebot
- · Software development in Linux environment using C++, ROS and MATLAB

AWARDS AND GRANTS

Rockstart Smart Energy Program

02/2016 - 08/2016

Participant

Amsterdam, The Netherlands

- \cdot Selected as the top 10 among more than 500 participating startups.
- · Received investment from a Dutch accelerator (Rockstart)
- · Participated in pitching competitions and investor meetings

StartupFarm Industry

12/2015

Second Place

Belo Horizonte, Brazil

· Participated in an acceleration program from the biggest startup accelerator in Latin America, obtaining the second place at their Demo Day

Brazilian Science Mobility Program

08/2013 - 08/2014

Awardee

Austin, USA

· Selected for the grant, that covered a year of studies at The University of Texas at Austin, including tuitions, housing, meals, travel expenses and internship

PUBLICATIONS

International Journal of Robotics Research (IJRR)

02/2017

- · A. Pierson, L. C. Figueiredo, L. C. A. Pimenta, e M. Schwager. "Adapting to Sensing and Actuation Variations in Multi-Robot Coverage"
- · Experimental results at: https://www.youtube.com/watch?v=qyYt3frZ7aw
- · Considered the most influential journal in robotics research

IEEE International Conference on Robotics and Automation (ICRA)

05/2015

- · A. Pierson, L. C. Figueiredo, L. C. A. Pimenta, e M. Schwager. "Adapting to Performance Variations in Multi-Robot Coverage"
- · Considered the best conference in robotics research

SKILLS

Programming C, C++, Python, Robot Operating System - ROS C#, Java, Node.js

Android, Google Cloud Platform, Amazon Web Services, MATLAB

RTI DDS, OpenSplice DDS

Databases MongoDB, PostgreSQL, InfluxDB

Electronics Arduino, Eagle, Altium

Office Word, PowerPoint, Excel, Visio Managerial Scrum, Agile, Lean Startup

Other AutoCAD, 3ds Max, Ubuntu, LaTeX, JUnit, UML

English Fluent
Portuguese Native