

Thiago Trolle Cavalheiro

Control and Automation Engineer / Software developer

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EXPERIENCE

CWI Software, Porto Alegre / Brazil — Software Analyst / Developer.

MARCH 2021 - APRIL 2022

Analyst and JAVA back-end developer at CWI Software, a national and international market leader company of software development. As a programmer, I joined the team responsible for the PIX (new format of instant payment or money transfer) API development of Banco Votorantim, a Brazilian bank and CWI's partner. With a PO, a Scrum master, one tech leader and other 6 developers, the complete management of this project is done by an Agile environment (JIRA and MIRO softwares) and all tasks assigned by every developer can be followed by all members of the team. Java, Springboot, JPA, SQL, queries to read from Microsoft server (database), Bitbucket or Github as code repositories, Jenkins for continuous integration and RabbitMQ as the message broker are among skills and systems knowledge needed for the role that I used to do.

StarEng Technology, Porto Alegre / Brazil — Software developer

JANUARY 2017 - JANUARY 2021 and **MAY 2022 - ON GOING**

The VR StarEng system for Unity3D's creator and programmer of the company which develops digital games, SAAS systems and app (javascript and react-native) for Android and iOS. Also, StarEng has developed a large range of electronic systems that are used for gamification and automation projects. Interaction with cloud microservices, APIs, relational (AWS) and non-relational database (Firebase - Google) are among some techniques used for StarEng's softwares and app development. However, in the automation experiences side, it is possible to mention bluetooth controls for VR applications and the full concept and implementation of UBM Stareng hardware and software, which is an industrial maintenance management and control system that increases the productivity of electrical machines by measuring the real timing of its operation and reporting all necessary maintenance through UBM app. Since May 2022, during the period that I'm studying in Montreal-Canada, I've been working in a project called Stareng Timing Control (STC) system, and it is already implemented and running in production mode at Mega Graphics-Montreal. This system manages not only the employees effective working hours, but the timing that the workers take to complete jobs for the company's clients.

SKILLS

Advanced Knowledge in **Java**, **SpringBoot**, **JPA**, back-end **API** development and **SQL**.

Softwares: IntelliJ, Eclipse, Jira, Git, Bitbucket, Jenkins, Power BI, Microsoft Office 365, Unity 3D, Blender, Android Studio, Octave, Matlab.

Knowledge in multiplatform programming: HTML/CSS, C, C++, C#, Java, Javascript, React-Native and Python.

LANGUAGES

English - Advanced

Portuguese - Native language

Spanish - Beginner level.

French - Beginner level.

SISC / GACS - Automation and Control Systems Group, Porto Alegre / Brazil — *Software developer*

JANUARY 2015 - DECEMBER 2016

From October 2015 to December 2016: Software developer of the team responsible for the first stage of new automatic pilot project for the STARA tractors. Was built a Kalman Filter to determine the orientation and position of a tractor in the space, only through measurement fusion of a GPS and two inertial sensors, accelerometer and gyroscope. A Cortex M4 was used in this project. This microcontroller was responsible for sensors reading, filter processing and data logs generation for post-processing using I2C protocol.

From January 2015 to October 2015: Academic projects study and developing associated with control system innovations and dynamic modeling to control analysis and test of a quadcopter VANT. All projects were done using software like Matlab, Octave and Eclipse.

Wischrall Consultoria e Representações, Porto Alegre / Brazil—*Commercial*

JANUARY 2013 - AUGUST 2014

Selling equipment for industrial construction, buildings and sanitary works, technical visits and commercial process follow-ups.

EDUCATION

TREBAS INSTITUTE, Montreal/Canada — *Cyber security* - ON GOING

PUCRS - PONTIFÍCIA UNIVERSIDADE CATÓLICA DO RIO GRANDE DO SUL, Porto Alegre/Brazil — *Graduated in Control and Automation Engineering* - AUGUST 2010 - DECEMBER 2016

BACK-END AND FRONT-END PROJECTS

ASM Manager (2022) — *Developed for Android systems*

ASM manager is perfect for small businesses. It makes very easy to control and manage the business stock, products, sales and purchases.

Development tools: Java, JPA, Spring Boot, React-Native and Expo..

Google Play Store:

https://play.google.com/store/apps/details?id=com.trocky2012.ASM_Manager

OLA TASK (2022) — *Developed for Android and iOS systems*

OLA TASK is the easiest way to manage tasks for you or your team. Publish, assign and get tasks to do. Very useful for group managers.

Development tools: Java, JPA, Spring Boot, React-Native and Expo.

Google Play Store:

https://play.google.com/store/apps/details?id=com.trocky2012.Ola_Task

UBM STARENG (2021) — *Developed for Android and iOS systems*

Maintenance timing management and control system that increases the productivity of industrial electrical machines.

Development tools: Firebase (Google), React-Native and Expo.

Google Play Store:

<https://play.google.com/store/apps/details?id=com.trocky2012.app13>

CERTIFICATE - Microsoft DP-900, Azure Data Fundamentals

