CARLOS EDUARDO MARTINS IUNES

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CHEMIST
Married, Brazilian, 29 years old
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QUALIFICATIONS

- Six years of experience in the automotive industry;
- Experience in test methods and in validation of different materials;
- Experience in projects' technical execution and management;
- Analytical thinking;
- Engagement with teamwork;
- Interested in innovation, research & development;
- Advanced English skills;
- Excellent interaction with peers, customers and suppliers from different nationalities;
- Experience with Microsoft Office (Word, Excel, PowerPoint, Outlook, Project).

PROFESSIONAL BACKGROUND

APRIL/2019 – CURRENT
RD&I RESEARCHER – TEMPORARY CONTRACT, SENAI CIMATEC

Works in an innovation project for the automotive industry that is being developed in a partnership with a major OEM.

Main activities:

- Technological prospection; search and mapping of existing patents and scientific publications related to the project;
- Product development since early phases, as the definition of the product's Life Cycle, identification of the clients' needs, creation of Morphological Matrix and definition of preliminary concepts;
- Execution, review and monitoring of project's deliverables;
- Effective communication with technical teams to ensure adherence to the project's requirements and schedule;
- Presentation of the project's status to stakeholders overseas in regular meetings.

AUG/2014 – JULY/2018
JUNIOR ANALYST, FORD MOTOR COMPANY DO BRASIL

After working as a resident analyst for almost two years, was hired by Ford and continued to work in Materials Engineering team, where acted on:

- New vehicles' programs, acting as the responsible in South America region for managing the Material Approval Process for multiple materials, such as: Pressure sensitive adhesives (decorative tapes, double-sided tapes, hole covering tapes, labels, protective tapes), engine and transmission joints sealants, hot-melt adhesives, among others. Managing the Material Approval Process consisted of:
    - Working with functional engineering in the early stages of the program to define what material specifications should be used for each component;
    - Checking material-related information and signing-off on parts' drawings;
    - Working with suppliers to get the needed tests done in line with the programs' schedule;
    - Assessing test results and approving the materials to be added to the Global Approved Source List;

Also worked on:

- Proposing and supporting material-related cost reduction actions;
- Supporting production line on failure analysis and on finding fast and robust containment and permanent corrective actions to solve material-related issues, using methodologies as FMEA, 6-sigma and 8D;
- Participating on recurring technical discussions with peers in North America, Europe and Asia for the development of material specifications for global usage;
- Managing a project for development of materials to be used on the fuel system of vehicles powered by diesel/biodiesel blends;
- Providing a training in Creativity and Innovation as a volunteer instructor.

OCT/2012 – AUG/2014
JUNIOR ANALYST, MSX INTERNATIONAL

Worked as a resident analyst in Ford Motor Company of Brazil, as part of Materials Engineering team, where acted on the activities listed above, being:

- New vehicles' programs, acting as the responsible in South America region for managing the Material Approval Process;
- Proposing and supporting material-related cost reduction actions;
- Supporting production line on failure analysis and on finding fast and robust containment and corrective actions to solve material-related issues.
- Participated on recurring technical discussions with peers in North America, Europe and Asia for the development of material specifications for global usage.

FEB/2012 – OCT/2012
INTERN, BRASKEM S/A

During the internship, worked in a quality control lab at the Basic Inputs Unit, where participated on the management of performance indicators such as: analytical assertiveness, compliance of equipment maintenance and calibration schedule and internal client satisfaction index.

ACADEMIC BACKGROUND

MAR/2016 – APR/2018

MBA IN PROJECT MANAGEMENT, DEVRY INSTITUTE, RUY BARBOSA COLLEGE

SEP/2009 – FEB/2012

UNDERGRADUATE RESEARCH PROGRAM, FEDERAL UNIVERSITY OF BAHIA

Line of Research:

- Synthesis and study of reactivity of coumarins;
- Total synthesis on Ayapin;
- Synthesis of 3-carboxycoumarins from Meldrum's acid and 2-hydroxybenzaldehyde derivatives in water;

During this period, gained experience in Organic Synthesis by keeping close contact with methods of synthesis and chemical analysis, such as Gas Chromatography (Flame Ionization Detector, GC-FID), Infrared Spectroscopy (FT-IR), and interpretation of Nuclear Magnetic Resonance (H^1-NMR and C^{13}-NMR) spectrum. Has spent one year as a volunteer researcher and was granted with a scholarship for undergraduate researchers for the two subsequent years.

FEB/2008 – APR/2013

BACHELOR'S DEGREE IN CHEMISTRY, FEDERAL UNIVERSITY OF BAHIA.

Monograph title: Study on the synthesis and reactivity of coumarins derived from Meldrum's acid.

LANGUAGES

- **Portuguese:** Native speaker;
- **English:** Advanced speaking, reading and writing (IELTS General Test Score: 8 out of 9);
- **French:** Beginner;

PUBLICATIONS

- **Complete articles published in periodicals:**

CUNHA, S.; IUNES, C.; OLIVEIRA, C.C.; SANTANA, L.B. *Synthesis of coumarin-3-carboxylic acids and its applications in total synthesis of Ayapin, Coumarin and Umbelliferone.* Quimica Nova, v. 38, p. 1125-1131, 2015.

- **Summaries published in congress annals:**

IUNES, C.; CUNHA, S; OLIVEIRA, C.C.; SANTANA, L.B. A new green route for the total synthesis of Ayapin (6,*7-methylenedioxy-coumarin). 2011.* In: 34th Annual meeting of the Brazilian Society of Chemistry, 2011, Florianópolis.