

# Rodrigo A. Monterroso

## Process Engineer And Software Developer


 Halle (Saale), Germany


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 Guatemala City, Guatemala

 1989-03-28

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 Guatemalan (by birth), German  
(Application ongoing)



Chemical Engineer with a demonstrated history of working in the chemical and technology industry optimizing process yields and operations by means of digitalization initiatives. Studied Chemical Engineering in Guatemala and Energy Management in Germany. Currently studying Full-Stack software development for web applications. Innovative, open-minded person with enthusiasm about the digital transformation in the industry.



### Experience

2017-03 - 2019-09

#### Process Engineer

*Solvay Chemicals GmbH, Bernburg (Saale)*

##### Responsibilities

- Management of technical and digital projects from planning until commissioning.
- Optimization of chemical production processes by means of data analysis.
- Introduction and support of Lean Management and Excellence tools.
- Communication with technical and research departments of the Company Group, as well as on-site production, maintenance and safety departments.

##### Achievements

- Highest chemical yield in the production after 10 years, optimized reaction and parameters in the process.
- Lowest specific consumption of raw materials achieved thanks to a better performance visualization.

2016-05 - 2017-02

#### Field Operations Associate

*Google (through Adecco GmbH), Hamburg*

##### Responsibilities

- Providing operations support to improve accuracy for localization services on Google Maps in Germany and Europe.
- Data collection using proprietary software, installing and testing hardware.
- Identifying recurring technical problems, as well as working together with the team to make improvements.

##### Achievements

- Managed all technical and operative tasks and efficiently exceeded designated targets.

2015-03 - 2016-03

#### Research Assistant

*Fraunhofer Center for Silicon Photovoltaics (CSP), Halle (Saale)*

##### Responsibilities

- Development, design, and construction of test samples for the investigation of deficiencies in silicon photovoltaic (PV) modules.
- Optical and electrical characterization of the subjected modules.

##### Achievements

- Creation of specific single-wafer PV modules which could be completely decomposed to recover the semiconductor wafer for further analysis.



### Education

2018-10 - present

#### Code Institute, Ireland. Diploma in Full Stack Software Development

2013-10 - 2015-10

- HTML5, CSS3, JavaScript, Python. Management projects in GitHub
- Data Management, Full Stack Frameworks

2007-01 - 2012-03

● **Offenburg University of Applied Sciences, Offenburg. M.Sc. in Energy Conversion and Management**

- Energy systems: Solar energy, bioenergy, wind and hydro power plants, conventional power technologies and energy management.
- Energy economics, planning and operation of energy systems

● **University Del Valle of Guatemala, Guatemala City. B.Sc. in Chemical Engineering**

- Design, development and optimization of chemical processes and quality management.
- Energy conversion of primary forms of energy.



**Skills**

● **Adaptability** - worked on a contract for an international company in the country and abroad



advanced

● **MS Office** - expert knowledge of the entire suite



advanced

● **Computer programming** - HTML5, CSS3, Pyton, JavaScript, R



experienced

● **Advanced Process Control** - Aspen Technology, AspenONE



experienced

● **Statistical Analysis** - Minitab, R, SAS



experienced



**Languages**

● Spanish



Native Speaker

● English - Certified



Full Professional Proficiency

● German - Certified



Full Professional Proficiency

● French



Basic Proficiency



**Interests**

- New technology trends
- Cultural exchange
- World economics
- Poverty alleviation