





Rodrigo Alvarez Monterroso


Chemical Engineer And Software Developer


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Citizenship: Guatemala, Germany
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Place of birth: Guatemala City,
Guatemala
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1989-03-28



Chemical engineer with solid experience in the chemical and technology industry optimizing process yields and operations by means of data analysis, Lean Six Sigma methodology and digital transformation initiatives. Studied Chemical Engineering in Guatemala, Energy Management in Germany and currently studying a Full-Stack software development program for web-based applications. I am an innovative, open-minded person always searching for continuous improvements, and with with strong passion about the digital transformation in every industry.



Experience

2017-03 - 2019-12

Process Engineer

Solvay Chemicals GmbH, Bernburg (Germany)

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 soda production process in 10 years after process parameters were optimized.
- Lowest specific consumption of raw materials achieved thanks to a better performance visualization (KPI and KAI digital dashboard)

2016-05 - 2017-02

Field Operations Associate

Google (through Adecco GmbH), Hamburg (Germany)

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 (Germany)

Responsibilities

- Development, design, and construction of specific test samples for research on performance deficiencies of artificially-aged silicon solar panels.
- Optical and electrical characterization of the subjected modules.

Achievements

2018-10 - 2020-06

2013-10 - 2015-10

2007-01 - 2012-03



Education

- **Code Institute, Ireland.** - Diploma in Full Stack Software Development
 - HTML5, CSS3, Javascript, Interactive Front End Development,
 - Python, Data Centric Development, Full Stack Frameworks with Django
- **Offenburg University of Applied Sciences, Germany** - 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** - 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 Germany and abroad

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advanced
- **MS Office** - Expert knowledge of the entire suite

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advanced
- **Computer programming** - HTML5, CSS3, Python3, JavaScript, R

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

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experienced
- **Statistical Analysis** - Minitab, JMP from SAS

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experienced
- **G Suite from Google, Google Cloud** - Experienced

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Languages

- Spanish

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Native Speaker
- English - Certified

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Full Professional Proficiency
- German - Certified

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Full Professional Proficiency
- French

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Basic Proficiency



Licenses

- Employment Authorization Document from the USCIS. Category A18

2020-06