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# GABRIELLY MIYAZAKI



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SINGLE NAME  
GABRIELLY PEREIRA DA SILVA

CHEMICAL ENGINEER WITH MORE THAN 5 YEARS OF EXPERIENCE IN THE OIL FIELD SERVICE, DRILLING AND COMPLETION FLUIDS. WORKED AS FLUID ENGINEER IN DEEPWATER OFFSHORE RIGS. WORKED ALSO IN LAB OF ANALYSIS IN DRILLING AND COMPLETION FLUIDS AND IN LIQUID MUD PLANTS. PERFORMED RESEARCH WITH FLUID MECHANICAL, COMPUTATIONAL FLUID DYNAMICS (CFD) AND THERMODYNAMIC MODELS IN PROJECTS AT THE FEDERAL UNIVERSITY OF SERGIPE DURING THE GRADUATION.



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## EDUCATION HISTORY

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### PRE-DOCTORATE (BAC+6) (2018 – PRESENT)

L'Institut de Technologie et d'Innovation (PSL-ITI) – Paris  
<https://www.psl.eu/>

### DRILLING FLUID ADVANCED TRAINING – BLOCK I (2015 – 2015)

Halliburton Training Center – Houston - [www.halliburton.com](http://www.halliburton.com)

### DRILLING FLUID TRAINING - MUD SCHOOL (2012 – 2012)

Halliburton Training Center – Houston - [www.halliburton.com](http://www.halliburton.com)

### CHEMICAL ENGINEERING BACHELOR (BAC+5) (2007 – 2012)

Federal University of Sergipe (UFS) – Brazil – [www.ufs.br](http://www.ufs.br)  
Title of thesis: Optimization via Computational Fluid Dynamics of the configuration of a Static Mixer to be applied in the Production of Biodiesel

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## JOB EXPERIENCE

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### INTERNSHIP IN THEORETICAL CHEMISTRY AT ÉCOLE NATIONALE SUPÉRIEURE DE CHIMIE DE PARIS (JAN/2019 – PRESENT)

Supervisor: Prof Carlo Adamo of Chemical Theory and Modelling Group from École Nationale Supérieure de Chimie de Paris (ENSCP).  
Title: Modeling solvent selection for biorefinery applications.

### DRILLING FLUID ENGINEER AT HALLIBURTON BRAZIL (May/2012 a September/2017)

Worked as Fluid Engineer in the Pre-Salt Deepwater Offshore Rigs, developed drilling and completion fluid jobs for Petrobras projects in the Brazilian Pre and Post-salt Oil Fields:

- Responsible to chemical and physical testing of drilling and completion fluids.
- Simulate proposed drilling condition to provide optimization of fluid properties and drilling parameters using engineering software.
- Complete daily operations reports.
- Manage inventory and associated logistics.
- Knowledge of Baroid fluid products, systems and associated oilfield services.

## ACADEMIC CV

[HTTP://LATTES.CNPQ.BR/2020534072329656](http://lattes.cnpq.br/2020534072329656)

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## LANGUAGES

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Portuguese – Mother tongue  
English – Fluent  
French – Beginner

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## SOFTWARE

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Ansys CFX  
Ansys Fluent  
Mathcad  
Microsoft Excel

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During this period, I also worked at Lab Baroid Macaé performed oilfield laboratory testing: Rheology, API & HTHP Fluid Loss, LSM (Linear Swell Meter), Particle Size Distribution, Lubricity, Spacer Cleaning Test, Break and Dissolution Test and fluid formulation. Worked in Lab Liquid Mud Plants (Brasco and Nitshore Port) performed chemical testing of fluids and provided fluid to Petrobras Libra Project.

## INTERNSHIP IN CHEMICAL ENGINEERING AT ENGPET - BRAZIL (July/2011 – December/2011)

Performed the study and monitoring of the installation of a pneumatic pump system for lifting oil known as BPZ.

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## R&D PROJECTS AT UNIVERSITY

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1. Optimization of Biodiesel Production in Continuous Process (2010 – 2012)
  2. Study of Computer Fluid Dynamics of a Continuous Reactor to Biodiesel Production (2010 – 2011)
  3. Modeling and Simulation using Computer Fluid Dynamics (2009 – 2010)
  4. Thermodynamic Modeling of liquid-liquid equilibrium of Biodiesel/Alcohol/Glycerin (2008 – 2009)
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## PATENTS AND MAIN PUBLICATIONS

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1. Patent: Reator Contínuo Provido de Misturadores Vortex (PII 107268-7)
2. Book Chapter: Estimativa da Viscosidade do Óleo do Moringa a Várias Temperaturas. Livro: Potencialidades da Moringa Oleífera Lam. São Cristóvão: UFS - Universidade Federal de Sergipe, 2011, v. 1, p. 1-422.
1. Evaluation of Group-Contribution Methods to Estimate Vegetable Oils and Biodiesel Properties. International Journal of Engineering and Technology (IJET), v. 2, p. 1600-1605, 2012
2. Estimativa da viscosidade de misturas de biodiesel por métodos de contribuição de grupo. Exacta (São Paulo. Impresso), v. 10, p. 101-107, 2012.
3. Desenvolvimento de novas configurações para misturadores estáticos. Exacta (São Paulo. Impresso), v. 10, p. 259-268, 2012.
4. Otimização de um Reator Contínuo Para Produção de Biodiesel. XXXV Congresso Brasileiro de Sistemas Particulados (2011).
5. CFD Simulation of a Hydrocyclone Used as a Mixer. 21st International Congress of Mechanical Engineering (2011).
6. Employment of Group-Contribution Methods to Estimate vegetable Oils and Biodiesel Properties. II Iberoamerican Conference on Supercritical Fluids (2010).
7. Determination of Activity Coefficients in a Biodiesel/Alcohol/Glycerol Mixture. II Iberoamerican Conference on Supercritical Fluids (2010).