



## Education

- **Polytechnique Montréal, Montréal, QC, Canada** (2014)

*Ph.D. Candidate, Department of Chemical Engineering*

Thesis: "Hydrodynamics of slurry bubble column reactors at high pressure and temperature"

- **Ecole Mohammadia d'Ingénieurs, Rabat, Morocco** (2013)

*Engineer degree, Department of Process Engineering*

Thesis: "Modelling and simulation of the hydraulic profile of Khouribga-Jorf Lasfar slurry pipeline"

## Research Interests

- Separation processes
- Unit operations
- Process dynamics and control
- Chemical reactor engineering
- Energy integration by Pinch method
- Transport phenomena: momentum, heat and mass transfer
- Hydrodynamics of slurry bubble columns at extreme conditions

## Work Experience

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|---|-----------------------|------|
| • <b>Process engineering research lab (PERL),</b><br>Polytechnique Montréal, Montréal, QC, Canada | Research<br>Assistant | 2014 |
| • <b>Jacobs engineering SA,</b> Casablanca, Morocco   | Trainee               | 2013 |
| • <b>Asment Témara cement plant,</b> Témara, Morocco  | Trainee               | 2012 |
| • <b>Office national des eaux potables,</b> Rabat, Morocco  | Trainee               | 2011 |

## Research Background

- Design of a unit of manufacturing Zineb fungicide of 5000 tons annual capacity
- Optimisation of water resources management system in Assoul Village in Morocco in collaboration with Penn state University, USA students.
- Different analytical methods of drinking and used water characterization
- Patent research training
- Improvement of heat exchanger performance in cement plant
- Hydrodynamic studies on bubble columns
- Hydraulic profile of slurry pipelines
- Calculations related to dryer design in chemical plants