SIBA MOUSSA, EIT

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OVERVIEW

Experienced in leading groups, data analytics, software design, and research and development. Pursuing a Ph.D. in Materials Science and Analytical Chemistry focused on quantitative sensor design. Currently working towards Project Management Professional (PMP) certification (Application Accepted for Examination).

EDUCATION

Ph.D. Analytical Chemistry, McGill University, Montreal, Canada   **2016 - Current**
Thesis: Development of Sensors for Quantitative Applications
Mini-MBA, Desautels Faculty of Management, McGill University, Montreal, Canada   **2020**
BSc. Chemical Engineering (Cum Laude), Texas A&M University, Texas ,USA   **2012 - 2016**
Minor in Chemistry, Tau Beta Pi Member, Omega Chi Epsilon President, Society of Women Engineers Treasurer

INTERNSHIP EXPERIENCE

Research Intern, The Protein Factory- University of Insubria, Varese, Italy   **2019**
> Expressed, purified and characterized neurologically relevant enzymes for their incorporation into biosensors.

Reservoir Testing Lab Engineer Intern, Schlumberger PVT Lab, Saudi Arabia   **2016**
> Participated in sample testing, analysis & report writing for upstream producers in the oil and gas sector
- *Determined reservoir fluid behaviors, properties, and composition of oil and gas samples using GC analysis*
- *Performed QA/QC testing on well samples to characterize hydrocarbon properties and determine nearest analogs to develop optimal reservoir exploitation strategies*

Research Scientist Intern Schlumberger Dhahran Research Center, Saudi Arabia   **2015**
Developed a strategy to enhance oil recovery in conventional reservoirs with High Pressure Liquid Chromatography
- *Analyzed properties of carbonate formations in conventional reservoirs using lab grade equipment*
- *Developed a method to increase oil-water separation, to reduce water-cut in aging wells, and maximize production*

Dowell Stimulation Lab Intern Schlumberger, Saudi Arabia   **2013**
Analyzed water return samples from tight oil reservoirs to detect presence of contaminants and optimize frack
- *Utilized crosslinking agents to treat water samples, performed shear stress tests, reported water quality*
- *Implemented water sampling and analysis procedures, updated process flowcharts, provided recommendations*

RESEARCH EXPERIENCE

Research Assistant in Process Safety, Mary O'Connor Process Safety Center   **2015 – 2016**
- *Developed lab audits, executed risk and HAZOP assessments, and presented research findings*
- *Identified KPIs in process safety, developed and implemented recommendations on an organizational level*

Research Experience Project in Engineering Education, TAMU   **2013 – 2014**
- *Developed design-based learning activities to determine student preparedness for university STEM programs*
- *Prepared research reports highlighting findings and led presentations at international conferences*

PROFESSIONAL ORGANIZATIONS

Professional Engineers Ontario - EIT, Omega Chi Epsilon Lifelong Member, Tau Beta Pi Lifelong Member

PROFESSIONAL TRAINING

Engineering Project Management: Initiating and Planning, Rice University	**April 2020**
Managing Project Risks and Changes, UC Irvine University	**April 2020**
Writing Strategic Business Reports, MITACS	**March 2020**

RECOGNIZED ACHIEVEMENTS & AWARDS

McGill Terry Hunt Teaching Award, Clark-SELF Fellowship	**2020**
Award, MITACS Globalink Research Award, Faculty of Science Graduate Mobility Award	**2019**
McGill Dobson Cup Startup Company Finalist, McGill Outreach Mentoring Award	**2018**
Cadence Micro-Nanosystems Design Award	**2017**
Texas A&M University Full Merit Scholarship, Dean's Honor Roll	**2013 - 2016**

COMMUNITY INVOLVEMENT

Syrian Kids Foundation Tutoring and Grant Writing Volunteer	**2016 - 2020**
The Electrochemical Society Montreal Student Chapter Vice President, McGill Outreach Member	**2017 - 2019**
Omega Chi Epsilon Chemical Engineering Honor Society President	**2015 - 2016**

SKILLS

Technical: Data Analysis (Python, Matlab,R), Microsoft & Google Suite Proficient, Leadership, Public Speaking, International Collaboration, Electrical Instrument Design and Handling, ASPEN, COMSOL, SolidWorks, AutoFusion
Languages: English (Native), Arabic (Native), French (Intermediate), Italian (Beginner)