

# SIBA MOUSSA, EIT

📍 Montreal, QC, Canada

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## Education

**Ph.D. Electrochemistry**, McGill University, Montreal, Canada **2016 – 2020**  
**Mini-MBA**, Faculty of Management, McGill University, Montreal, Canada **2020**  
**BSc. Chemical Engineering (Cum Laude)**, Texas A&M University, Texas, USA **2012 - 2016**  
*Minor in Chemistry, Society of Women Engineers Treasurer*

## Work Experience

**Research Intern, The Protein Factory- University of Insubria**, Varese, Italy **April – June 2019**  
*Identified and expressed three novel enzymes for incorporation into biosensors*

**Reservoir Testing Lab Engineer Intern, Schlumberger PVT Lab**, Saudi Arabia **June – Aug 2016**  
*Participated in sample testing, analysis & report writing for producers in the oil and gas sector*

**Research Scientist Intern Schlumberger Dhahran Research Center**, Saudi Arabia **June – Aug 2015**  
*Developed a strategy to enhance oil recovery in conventional reservoirs with HPLC*

## Recognized Achievements & Awards

McGill T. Sterry Hunt Teaching Award, Clark-SELF Fellowship **2020**  
IUPAC Young Chemist Award, MITACS Globalink Research Award, 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**

## Research Experience

**Ph.D. Candidate**, McGill University **Sept. 2016 – Current**  
*Thesis: Development of Electrochemical Sensors for Quantitative Applications*  
*Developed a graphical user interface using Python for automation of sensor data analysis*  
*Trained 50+ scientists on using HEKA potentiostats and electrochemistry fundamentals*  
*Initiated and managed 5 projects with local and international collaborators*

**Research Assistant in Process Safety**, Mary O'Connor Process Safety Center **Sept. – May 2016**  
*Developed lab audits, executed risk and HAZOP assessments*  
*Developed a method for pressure relief valve size determination from experimental data*  
*Identified KPIs in process safety, developed and implemented recommendation*

## Leadership Experience

**Invited Panelist**- McGill Chemistry Student Panel for STEM Diversity & Inclusion **2020 - Current**  
**Volunteer**- Syrian Kids Foundation Tutoring and Grant Writing **2016 - 2020**  
**Vice President**-The Electrochemical Society Montreal Student Chapter **2017 - 2019**  
**Member** - McGill Outreach **2017 - 2019**  
**President**- Omega Chi Epsilon Chemical Engineering Honor Society **2015 - 2016**

## Skills

**Technical:** Microsoft Visio, Office, Powerpoint, Excel, Data Analysis, Python, Matlab, Public Speaking, ASPEN, 3-D Printing, SolidWorks, AutoFusion, ASPEN, Metal part machining,  
**Languages:** English (Native), Arabic (Native), French (Intermediate), Italian (Beginner)

## Professional Organizations

Professional Engineers Ontario (EIT), Life-Long Memberships: Omega Chi Epsilon, Tau Beta Pi