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# ESUBALEW BIHON BESHI

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+251925987480 | esubalew22bihon@gmail.com

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## Summary

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I am a dedicated and results-driven Assistant Lecturer with over four years of experience in Chemical Engineering. My expertise includes process design, safety assessment, and equipment operation, along with proficiency in key industry software like Aspen HYSYS, AutoCAD, MATLAB, OpenLCA, and ArcGIS. I have a strong ability to simplify complex concepts such as fluid mechanics, thermodynamics, and reaction engineering for students, while also engaging in research on process optimization and environmental risk assessment. With excellent data analysis skills and strong communication abilities, I effectively manage projects and thrive in collaborative, interdisciplinary environments. I am passionate about contributing to advancements in Chemical Engineering through innovative research and by inspiring the next generation of engineers.

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## Skills

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- Data Analysis
  - Spreadsheet Proficiency
  - OpenLCA Expertise
  - ArcGIS Proficiency
  - Process Design
  - Equipment Operation
  - Safety Assessment
  - MATLAB Calculations
  - AutoCAD Design
  - Aspen HYSYS
  - Chemical Principles
  - Fluid Mechanics
  - Reaction Engineering
  - Mass Balances
  - Process Optimization
  - Communication Skills
  - Project Management
  - Team Collaboration
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## Experience

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### Environmental Engineer Postgraduate Student Bahir Dar University

**01/2022 to Current**  
**Ethiopia**

- Designed and optimized chemical processes to improve energy efficiency and reduce operational costs.
- Applied thermodynamics and fluid dynamics principles to enhance heat transfer and streamline production workflows.
- Developed and implemented process safety measures, ensuring compliance with industry regulations and environmental standards.
- Utilized simulation software to model and optimize chemical reactions and separation processes for large-scale production.
- Collaborated with cross-functional teams on equipment design and project management, delivering innovative solutions within budget and timelines.

### Assistance Lecture Woldia University

**01/2019 to 02/2022**  
**Ethiopia**

- Supported clients by offering tailored guidance and resources, resulting in improved customer satisfaction.
- Collaborated with cross-functional teams to deliver problem-solving solutions, reducing response time significantly.
- Empowered employees through coaching and training programs, enhancing productivity and performance.

- Facilitated mentorship and counseling sessions, helping individuals achieve their career goals and secure promotions.
- Developed strategic partnerships and provided ongoing advisory services, leading to notable business growth.

### **Laboratory Assistance**

**02/2017 to 02/2019**

#### **Woldia University**

- Prepared samples for analysis by following precise test procedures and ensuring accurate specimen handling.
- Conducted routine equipment maintenance and calibration to support reliable experimentation and data collection.
- Assisted in research support by performing data analysis and interpreting experimental results for ongoing studies.
- Followed strict safety protocols and quality control measures to maintain laboratory compliance and safety standards.
- Managed inventory and laboratory supplies, ensuring efficient operations and timely restocking of essential lab equipment.

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## **Education and Training**

### **Master's Degree: Environmental Engineering**

**2024**

Bahir Dar University

### **Bachelor Degree: Chemical Engineering**

**01/2013 to 01/2017**

Wollo University

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## **Certifications**

- Data Analysis Fundamental Udacity | Issued on August 2024
- Programming fundamental Udacity | Issued on August 2024

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## **PROJECTS**

- **Environment impact assessment by Life cycle assessment in metal industry.**  
**Owner**

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## **REFERENCE**

Maregu Bihon Beshi (Brother)

Civil servant | Woreda issue office

+251928360782 | maregubihon@gmail.com

Dr. Eshetu Getahun (My Advisor)

Instructor | Bahir Dar University

+251920053567 | eshetu201384@gmail.com