

MAHMOUD AHMED ABDELHAMID

Giza, Egypt

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EDUCATION

Cairo University

Bachelor of Chemical Engineering

October 2020 – June 2025

Giza, Egypt

- **Overall Grade:** Very Good

Green Ammonia Production from Bagasse Gasification

Graduation Project, Cairo University

Sep 2024 – June 2025

Giza, Egypt

- Performed material and energy balance for the gasification unit.
- Utilized Aspen Plus to simulate bagasse gasification and analyzed gasifier parameters to optimize cost.
- Designed chemical process, reactor vessel, and control scheme for a fluidized-bed gasifier.
- **Grade:** Excellent

EXPERIENCE

BioMasr Ltd.

Development Engineer

August 2025 – Present

Cairo, Egypt

- Conduct internal technical research on waste-to-energy technologies, including biochar and biogas.
- Prepare detailed technical reports for ongoing projects.
- Support innovation and development initiatives for new projects.

SAPESCO - A NESR Company

Field Services Engineer Intern

August 2024 – September 2024

Matruh, Egypt

- Completed a summer internship focusing on coiled tubing operations and wireline services.
- Worked on nitrogen pumping for well interventions and stimulation.

ENPPI

Process Engineer Intern

July 2024 – August 2024

Nasr City, Cairo

- Studied upstream and downstream processes in petroleum operations.
- Gained expertise in pump hydraulics and separator operations.

Suez Cement - Heidelberg Materials

Production Engineer Intern

September 2023

EL Katameya, Cairo

- Researched energy efficiency and alternative fuels (RDF and biomass) to support process optimization.
- Assisted in analyzing unit operations and production flows to identify cost-saving opportunities.

EBIC - Fertiglobe

Process Engineer Intern

August 2023

Orascom Industrial Park, Suez

- Reviewed process flow diagrams and contributed to troubleshooting plant operations.
- Monitored plant operations for safety and efficiency improvements.

ACTIVITIES AND PARTICIPATION

UN-Habitat - World Urban Forum (WUF12)

October 2024 – November 2024

PR and VIP Volunteer

Cairo, Egypt

- Guided attendees and VIPs during the conference and represented the organization.
- Managed and facilitated communication between international delegates.

Resala Charity Organization

August 2024

Volunteer

Cairo, Egypt

- Assisted in organizing community events and managing resource distribution.
- Coordinated logistics and ensured efficient event execution.

SKILLS

Software

MS Office, Aspen Plus, HYSYS

Technical

Simulation, Data Analysis

Personal

Team Work, Problem Solving, Communication, Time Management

LANGUAGES

Arabic

Native

English

Very Good