

# MAHMOUD AHMED ABDELHAMID

Giza, Egypt

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## EDUCATION

<b>Cairo University</b> <i>Bachelor of Chemical Engineering</i>	<b>October 2020 – June 2025</b> <i>Giza, Egypt</i>
<b>Green Ammonia Production from Bagasse Gasification</b> <i>Graduation Project, Cairo University</i>	<b>Sep 2024 – June 2025</b> <i>Giza, Egypt</i>

• Overall Grade: Very Good

- 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

<b>BioMasr Ltd.</b> <i>Development Engineer</i>	<b>August 2025 – Present</b> <i>Cairo, Egypt</i>
• 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.	
<b>SAPESCO - A NESR Company</b> <i>Field Services Engineer Intern</i>	<b>August 2024 – September 2024</b> <i>Matruh, Egypt</i>
• Completed a summer internship focusing on coiled tubing operations and wireline services.	
• Worked on nitrogen pumping for well interventions and stimulation.	
<b>ENPPI</b> <i>Process Engineer Intern</i>	<b>July 2024 – August 2024</b> <i>Nasr City, Cairo</i>
• Studied upstream and downstream processes in petroleum operations.	
• Gained expertise in pump hydraulics and separator operations.	
<b>Suez Cement - Heidelberg Materials</b> <i>Production Engineer Intern</i>	<b>September 2023</b> <i>EL Katameya, Cairo</i>
• 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.	
<b>EBIC - Fertiglobe</b> <i>Process Engineer Intern</i>	<b>August 2023</b> <i>Orascom Industrial Park, Suez</i>
• Reviewed process flow diagrams and contributed to troubleshooting plant operations.	
• Monitored plant operations for safety and efficiency improvements.	

## ACTIVITIES AND PARTICIPATION

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### UN-Habitat - World Urban Forum (WUF12)

*PR and VIP Volunteer*

**October 2024 – November 2024**

*Cairo, Egypt*

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

### Resala Charity Organization

*Volunteer*

**August 2024**

*Cairo, Egypt*

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

## SKILLS

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*Software*

*MS Office, Aspen Plus, HYSYS*

*Technical*

*Simulation, Data Analysis*

*Personal*

*Team Work, Problem Solving, Communication, Time Management*

## LANGUAGES

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*Arabic*

*Native*

*English*

*Very Good*