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Education:

- **Ph.D. in Chemical Engineering**, Faculty of Engineering, Minya University. El Minya, Egypt. Majored in [Biomass and solid waste pyrolysis: Experimental. Measurements, modeling and simulation] 2020. Specialized in: Waste to Energy Conversion Technologies.
- **M.Sc., Chemical Engineering**, Minia University, Egypt. (2017) Viscosity of Egyptian crude oil over a wide range of temperatures and pressures: Experimental Measurements and Modeling"
- **B.Sc., Chemical Engineering**, Minia University, Egypt. 2004

Academic and Business Experience:

Period	Employing organization and contact information for references	Country	Summary of activities performed
2022-2023	Department of Chemical Engineering, Higher Institute of Engineering and Technology, Tanta. Lecturer.		<ul style="list-style-type: none">• Taught undergraduate chemical engineering courses and graduation projects supervision:<ul style="list-style-type: none">• Modeling & Simulation in Chemical Engineering.• Chemical Process control.• Natural Gas Engineering.• Chemical plant design and management.• Chemical plant economics.• Chemical Engineering thermodynamics.• Graduation project supervision.
2020-2022	Department of Chemical Engineering, Higher		<ul style="list-style-type: none">• Taught undergraduate chemical engineering and environmental engineering courses and graduation projects supervision:

Period	Employing organization and contact information for references	Country	Summary of activities performed
	Institute of Engineering and Technology, Menoufia. Lecturer (part time) For references: Tel: 01113362333 Dr/ Marwa Abdel-Fattah Head of the department		<ul style="list-style-type: none"> • Physical Chemistry. • Chemical Engineering thermodynamics. • Solid waste Management. • Environmental Chemistry. • Material & Energy Balance Fundamentals. • Inorganic Chemical Industries. • Organic Chemical Industries. • Graduated Project
2020 till Now	Engineering Tasks Group (ENTAG), Technical Studies Manager For references: Tel: 01005194797 e-mail: mkotb@entag.net Eng./ Magdy Ismail Kotb Design and R&D Manager	Egypt	<ul style="list-style-type: none"> • Perform all technical studies related to all solid waste treatment and disposal, also, waste to energy conversion technologies. • Main Research or Technology Topics: <ul style="list-style-type: none"> – Process Modeling and simulation – Crude oil viscosity modeling – Fast pyrolysis modeling – Waste to Energy Technologies – Pyrolysis – Gasification – Incineration – An aerobic digestion – Sanitary landfill biogas – ANN & ML • Identifying possible additional information regarding landfill and sorting plan that could be tackled within the framework of the project • Identifying possible additional information regarding landfill and sorting plan that could be tackled within the framework of the project • Identifying follow-up and future activities to be developed after the implementation period • Research issues as part of the waste management process and provide ideas, solutions, and expertise to Waste and processing Teams; and the development of waste management strategies.
2021	Project 1: - designing solid waste processing and treatment project Establishing a transfer station for collecting, sorting, and balling of MSW with a capacity of 50 tons/day		

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			in the area around the strategic leadership for Al-Nasr Services Company (Queen Service)
2020			Project 2: - Participate in preparing company qualification for Expression of Interest (EOI) for Waste to Energy Projects. The National Waste to Energy Committee at The Waste Management Regulatory Agency (WMRA) of The Ministry of Environment of Egypt.
2020			Project 3: Landfilling and Processing Services for Southern Zone in Cairo, 15 th May Project. <ul style="list-style-type: none"> - Research and development regarding the company products related to solid waste, agriculture residues' project (pellets, as well electricity generation from MSW & agricultures waste, Crude Oil Production from Rejected material (RDF). - Developing technical studies to upgrade state-owned waste treatment facilities for
[2010-2020]	Engineering Tasks Group (ENTAG), Alternative Fuel Quality Assurance Manager For references: Tel 01002589166 e-mail ehab@entag.net ; Ehab Mhmdy Saleem QC/QA Manager	Egypt	-To co-ordinate with the relevant parties to effectively manage the solid waste treatment plants -To identify areas of improvement to plant facilities, processes, methods of operations as well as troubleshooting the processes and equipment problems to ensure greater operating efficiency. - supervise plant modification activities, as well as, plan and participate in the implementation of capital projects, project commissioning and tie-in. - conduct audits and investigations, as well as, participate in audit preparation in the assigned work area(s) to ensure compliance with GMP and Safety requirements. - work with the Project Teams to progress the projects in the Sustainability Program and other NCEs.
2019-2018			Project 6: - NSWMP National Solid Waste Management Program. (designing solid waste processing and treatment for Alternative Fuel Production Line for (El- Monofeya Facility- Naga Hamady facility- Mahala facility- Defra facility- Sedi-Salem facility- Beyla facility)
2017-2018			Project 4: - designing solid waste processing and treatment for the Upgrading of MSW facilities of Beni Suf Governorate (El-Wasta – Somesta – Sanour)- Beni Suf Governorate
2016-2015			Project 5: - designing and processing the treatment for MSW sorting, recycling and composting plant in Hosh Issa (Bahira Governorate) – Egypt, 480Ton/day
2015			Project 36: - designing and processing the treatment of MSW sorting, recycling and composting plant in Defra (Gharbyah Governorate) – Egypt, 320Ton/day
2014			Project 3: - Design and processing the treatment of MSW sorting, recycling and composting plant 160Ton/day in Zagazig (Sharkya Governorate) – Egypt,

Period	Employing organization and contact information for references	Country	Summary of activities performed
			And Senblaween (Dakahlyah Governorate).
2014			Project 5: - Design and processing the treatment of MSW sorting, recycling and composting plant in Abo balah (Ismailia Governorate) - Egypt, 320 Ton/day
2014			Project 7: - Design, and processing the treatment. for municipal solid waste treatment plant in Tartous – Syria, 315ton / day
2013			Project 9: - Design, and processing the treatment of MSW sorting, recycling and composting plant 160 Ton/day in El Wasta (Bani sueif Governorate), Koum Hamadah (Bahira Governorate), Manzalah (Dakahlyah Governorate), and Kossyah (Asuit Governorate) Egypt
2012			Project 11: - Design, and processing the treatment of MSW municipal solid waste recycling and treatment plant in Lagos State Government- Nigeria, 900ton / day.
2011			Project 12: - Design, and processing the treatment of municipal solid waste transfer station in Muscat Municipality – Oman, 800 ton /day.
2010			Project 13: - Design, and processing the treatment of Municipal Solid Waste Sorting and Recycling Plant in Jeddah, Kingdom of Saudi Arabia, 1,260,000 ton /year.
[2009-2007]	<p>Engineering Tasks Group (ENTAG), chemical engineer.</p> <p>For references: Tel: - 010 05194721 e-mail pasant@entag.net ; Eng. Passant Esam Head of technical proposal department</p>	Egypt	<ul style="list-style-type: none"> -Using scientific, mathematical, and engineering principles to solve problems and improve processes. -Designing, proposing, implementing, reviewing, and correcting plans to ensure company goals are achieved. -Observing production processes, conducting research, and finding ways to increase efficiency and quality. -Using computers to compile and analyze data. - Analyzing samples of organic fertilizers and RDF for raw materials and products. - Commitment to sampling standards and timings. - Conduct chemical tests to assist in quantitative and qualitative analysis of products and raw materials - Providing technical support and assistance to production engineers. - Carry out calibration, maintenance and sterilization work for laboratory tools and equipment. - Writing technical reports or preparing tables and graphs to document the results.
2007-2009			Project1: Landfilling and Processing Services for Southern Zone in Cairo, 15 th May Project.

Period	Employing organization and contact information for references	Country	Summary of activities performed
	Submitting Daily laboratory report regarding the product analysis Composting Sampling procedures and preparation		

Course Certificates:

- o Students evaluation and perform exams
- o Endnote
- o How to teach science
- o Polymers and its tests
- o Aspen Hysys

Training and Workshops:

- o Online training program on “Solid Waste Management- Maximum Yield Technology (MYT) and Biogas production and Applications” 2021.organized by The Waste Management Regulatory Authority & The National Solid Waste Management Programme.
- o The Maximum Yield Technology and Biogas Training of Trainers (ToT) 2021.Organized by Egypt Solid Waste Management Center of Excellence (ESWMCE) & GIZ- NSWMP.
- o Professional writing of grant Proposal 2022. Organized by CABI in collaboration with the Egyptian Knowledge Bank (EKB).
- o Training workshop of waste to energy for North Africa Hangzhou, China(online), The Egyptian Society for Renewable Energy 2022.
- o Workshop of the definition of climate changes (the base of the problem), the Arab carbon market & credits initiative, Egyptian Ain El-Beeah Society 2023.
- o Workshop of Mechanisms for issuing and trading carbon certificates, the Arab carbon market & credits initiative, Egyptian Ain El-Beeah Society 2023.
- o Workshop of the role of biodiesel in reducing emissions and issuing carbon certificates, the Arab carbon market & credits initiative, Egyptian Ain El-Beeah Society 2023.

Language Skills:

Arabic mother tongue - English excellent (written & spoken)

Membership in Professional Associations and Publications:

Membership in Professional Associations and Publications:

Book and Book Chapters:

1. Saeed S, Ashour I, Aboul-Fotouh T. "Current Viscosity Measurements of Crude Oils Experimental work and modeling". Book Lambert Academic Publishing (2017); 978-3-330-06460-7.

Refereed Journal Papers:

1. Saeed S., Ashour I., Ali, M.R.O. Fast pyrolysis of Jatropha seeds in a fixed bed furnace, Petroleum and Coal, 61(6), 1494-1504, 2019.
2. Ismail TI, Yoshikawa K, Sherif H, Salah M, Saeed S. "Assessment of thermal treatment for windrow drying process of refuse-derived fuel (RDF): A case study". Detritus accepted 7 March 2019.
3. Saeed S, Ashour I, Sherif H, Ali MRO (2020). "Catalytic and noncatalytic fast pyrolysis of Jatropha seeds: Experimental measurements and modeling". Egyptian Journal of Chemistry. Article 238, Volume 63, Issue 2.
<https://doi.org/10.21608/EJCHEM.2019.19911.2201>.
4. Saeed S, Aboul-Fotouh TM, Ashour I (2016) "A Current Viscosity of Different Egyptian Crude Oils: Measurements and Modeling over a Certain Range of Temperature and Pressure". J Pet Environ Biotechnol 7:305. doi: 10.4172/2157- 7463.1000305.
5. Saeed S, Aboul-Fotouh TM, Ashour, I (2016) "A Current Viscosity of Different Egyptian Crude Oils: Measurements and Modeling Over A Certain Range of Temperature and Pressure". Pet Coal 58(6):611-621.
6. Yongjian Zeng, Lu Lin, Di Hu, Zhiwei Jiang, **Shaimaa Saeed**, Ruichao Guo, Ibrahim Ashour, Kai Yan. Highly dispersed Ru nanoparticles anchored on NiAl layered double oxides catalyst for selective hydrodeoxygenation of vanillin, Catalysis Today, Volume423, 2023, 114252, ISSN 0920-5861,
<https://doi.org/10.1016/j.cattod.2023.114252>.
(<https://www.sciencedirect.com/science/article/pii/S0920586123002766>)

References:

- Prof. Dr. Ibrahim Ashour,
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- Ass. Prof. Dr. Tarek M. Aboul-Fotouh,
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British University in Egypt.
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tarekfetouh@yahoo.com
- Ass. Prof. Dr. Mohamed R. O. Ali,
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