

Name: Haitham Ayoub
Rank: Senior Instructor of Industrial Practice - Mechanical Engineering

Personal Information

Nationality:	Lebanese
ACK Joining Date:	07 Jan 2018
E-Mail Address:	h.ayoub@ack.edu.kw

Professional Information

Education:	<ul style="list-style-type: none"> – MSc in Sustainable Engineering: Renewable Energy System & the Environment, 2012 University of Strathclyde, UK Group Project: Optimizing cost associating balance of wind plants, working with Sgurr Energy. Project Thesis: Improving Energy Yield of Solar Power Systems. – Bachelor of Mechanical Engineering, 2008 Beirut Arab University, Lebanon Final Year Project: Improving efficiency of Pre-heaters for Gas Power Cycle Project. Industrial Project: Design of HVAC system for the university new campus.
Specialization:	Energy Power Systems, Energy Conversion, Renewable Sources, Thermodynamics, Heat Transfer
Current Academic Position:	Senior Instructor of Industrial Practice
Current Professional Positions:	Senior Instructor of Industrial Practice
Previous Administrative Position Held:	<ul style="list-style-type: none"> – Design Engineer – EPC Power Projects – Project Engineer – Operation Oil & Gas
Previous Academic Positions Held:	Lab Instructor – Mechanical Engineering
Fellowships And Honors:	N/A

<p>Teaching Experience:</p>	<p>American University of the Middle East (AUM) – Kuwait Sep 2014 to Dec 2017 Lab Instructor – Mechanical Engineering Department</p> <ul style="list-style-type: none"> – Provided improved design approach for energy projects by investigating and simulating energy assessment. – The work has been communicated with different industrial parties in Kuwait. – Assigned by the head of mechanical engineering department as a course coordinator for heat-transfer lab to guide and supervise five other instructors, and coordinate the preparation of lab materials and experiments. – Instructed more than 200 students at a time during one semester for different courses such as heat-transfer lab, electricity and magnetism, and linear circuits. – Improved the performance of 80% of students on probation status from low to good through frequent feedbacks and academic support. – Successfully assisted senior students in their final year project in order to reflect a practical industrial experience.
<p>Industrial And Technical Experience:</p>	<p>At Kharafi National Company – Kuwait Sep 2008 to Sep 2014 Mechanical Design Engineer – Sep 2011 to Sep 2014 As a member of Engineering Procurement & Constructions Power Projects (EPC):</p> <ul style="list-style-type: none"> – Successfully designed and simulate parameters for renewable energy projects and negotiated selecting of proper applications with Joint Ventures (JV), suppliers, and vendors. (An example being the Shagaya Renewable Energy 70MW Plant, consisting of concentrated solar (CSP) power with thermal storage of molten salt, photovoltaic, and wind plant working on a JV with a Spanish company TSK). – Provided technical support to the operation department in selection of proper applications in order to meet contractual technical specification effectively. (An example being the Waste to Energy (WTE) project working on a JV with Suez Environment in a design of 100MW power plant). – Delivered engineering design packages on time that included, technical drawings, equipment data sheet and design description, meeting engineering standards such as ASME and API. (An example being the Emergency Power Plant of capacity of 1GW working with a JV Ansaldo Energia). – Solved technical problems by research and analysis, and excellently redesigned engineering systems according to actual site conditions and requirements in order to improve systems efficiency. (An example being Sulaiybeya Water Desalination Project working on redesign of water chamber mixer). <p>Project Engineer – Sep 2008 to Sep 2011</p> <ul style="list-style-type: none"> – Successfully developed project activities throughout mobilization, execution and closing on time. Received an appreciation letter from Kuwait Petrochemical Industries Company (PIC) on construction and maintenance works for rotating and static equipment.

	<ul style="list-style-type: none"> - Managed project resources effectively and reduced project cost, though daily guidance and supervision of site engineers. (An example being working on a project for Kuwait Oil Company (KOC) for maintenance and construction of mechanical, electrical and instrumentational equipment). - Derived project plans and facilitated project execution adhering to project budget and timeline. (An example being Equate Polyethylene Project working with a JV Fluor to expand the polyethylene unit by 225 km.t/y).
Research Interest:	Energy Power Systems, Energy Conversion, Renewable Sources, Thermodynamics, Heat Transfer, Energy Storage Systems
Research Grants:	N/A
Research and Publications including Journal s and Books:	N/A
Paper Presentations at Professional Conferences:	<ul style="list-style-type: none"> - MSF-RO hybrid system for seawater desalination in Kuwait, ASHRAE 2016. - Technical and economical investigation of wind power potential in Kuwait, ASME 2015 Power Conference.
College Service including committee Membership:	N/A
National Service:	N/A
School Committees:	N/A