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Working Experience

- **September, 2012 – Now (Full Time)**
Senior Teaching and Research Assistant in Mechanical Power Department, Faculty of Engineering, Cairo University.
Courses taught:
 - Numerical Methods
 - Heat and Mass transfer
 - Mechanical Engineering Laboratories
 - Thermodynamics
 - Solar Energy
 - Engineering Measurements
- **August, 2014 – Now (Part Time)**
Research Assistant in project “Manufacturing and Performance Analysis of Advanced Stand Alone Solar-MED Desalination Unit” funded by Masr El-Kheir, Egypt.

Training Experience

- **September, 2011**
Khalda Petroleum Company (KPC), Marsa Matrouh, Egypt
(Safety Engineering, Gas Power Plants and Pipelines)
- **July, 2011**
Productivity and Vocational Training Department (PVTD), Ministry of Industry and Trading, Cairo, Egypt
(Air Conditioning)
- **July, 2010**
National Research Center (NRC), Cairo, Egypt
(Internal Combustion Engines, Energy Storage and Wind Tunnels)
- **July, 2009**
Arab Contractors (OAO & Co.), Cairo, Egypt
(Quality Control, Metal Processing and CNC machines)

Education

Master of Science: (October, 2012 – July, 2013)

- Faculty of Engineering, Cairo University, Egypt
- Major: Mechanical Power Engineering
- GPA: 3.8/4.0
- Thesis: “**Effect Of Tracking Orientation On The Performance Of Parabolic Trough – Storage Tank Combination**”

Bachelor of Science: (May, 2012)

- Faculty of Engineering, Cairo University, Egypt
- Major: Mechanical Power Engineering
- Overall Grade: Distinction with honours degree (89.3 %)
- Graduation Project: “**Full Design of Domestic Solar Water Heating System**”
(Grade: Distinction)
- Rank: First among 350 colleagues in the department.

Language Skills	<ul style="list-style-type: none"> • Arabic: Mother tongue • English: Very good (IELTS: 6.5, GRE: Quantitative: 160, Verbal: 143, Analytical: 3)
Computer Skills	<ul style="list-style-type: none"> • MATLAB • AutoCAD • Ansys Fluent • SolTrace • Engineering Equation Solver (EES) • SolidWorks • HAP • Meteonorm
Publications	<ul style="list-style-type: none"> • “An Investigation of Thermal Performance and Temperature Control of Stratified Storage Tank in Solar-MED Desalination”, International Conference on Nuclear and Renewable Energy Resources, Antalya, Turkey, 2014. “Paper Accepted, Under Press” • “Simulation of Tracking Configuration Effect on the Performance of Solar Parabolic Trough – Storage Tank Combination”, International Conference on Nuclear and Renewable Energy Resources, Antalya, Turkey, 2014. “Paper Accepted, Under Press”
Awards	<ul style="list-style-type: none"> • Schlumberger Petroleum Company award for academic excellence, 2012 • Schlumberger Petroleum Company award for academic excellence, 2011 • Schlumberger Petroleum Company award for academic excellence, 2010 • A certificate of appreciation from Faculty of Engineering for academic excellence, 2009 • A certificate of appreciation for the academic superiority, 2009 • 3 certificates of appreciation from Resala Charity Organization, for voluntary works
Interests & Activities	<ul style="list-style-type: none"> • Reading • Drawing • Voluntary works • Photography
References	<ol style="list-style-type: none"> 1- <u>Prof. Dr. Abdalla S. Hanafi - MSc Supervisor</u> Professor of Mechanical Engineering, Cairo University, Cairo, Egypt. Head of Solar-MED Desalination Project, Cairo University Home: (202) 3837055 - Bus. : (202) 5678272 - Mob. : +20 101412856 email : hanafi1946@yahoo.com 2- <u>Prof. Dr. Abdul-Wahed F. El-Dib – BSc Supervisor</u> Professor of Mechanical Engineering, Cairo University, Cairo, Egypt. Home. (202) 2040005 - Bus. (202) 5678545 - Mob. : +20 107819825 email: eldib1@yahoo.com 3- <u>Prof. Dr. Sayed Kaseb - Head of Heat Transfer Group</u> Professor of Mechanical Engineering, Cairo University, Cairo, Egypt. Manager of Renewable Energy and Energy Efficiency Master (www.remna.uni-kassel.de) Manager of Pathways to Higher Education-Egypt (Pathways.cu.edu.eg) Bus. : (202) 35713852 - Fax: +202-35703620 - Mob. : +20 1066689701 email: kasebpathways@gmail.com - kaseb@cu.edu.eg 4- <u>Dr. Hatem Kayed – MSc Supervisor</u> Assistant Professor of Mechanical Engineering, Cairo University, Cairo, Egypt. Home: (202) 3702046 - Mob. : +20 104692659 email: hatem_kayed@yahoo.com - hatem_kayed@eng.cu.edu.eg