


1- Personal Details

Name	:	Tarek Mohamed Ahmed Ali El-Bagory	
Date of Birth	:	29/10/1972	
Nationality	:	Egyptian	
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2- Area of specialization:

Major	Mechanical Design
Minor	Materials Science (Fracture Mechanics)

3- Education & Qualifications

Date	Degree	University name	Country	Title of the Dissertation
1997	Bachelor Degree (B.Sc)	Helwan University (College of Engineering-Mattaria)	Egypt	Interaction Between Two Parallel Jets
2004	Master of Science (M.Sc)	Helwan University (College of Engineering-Mattaria)	Egypt	Experimental and Finite Element Analysis of Crack Growth in Pipes Made of Polymeric Materials
2010	Doctorate (PhD)	Helwan University (College of Engineering-Mattaria)	Egypt	Failure Analysis of Polymeric Miter Pipe Bends Under Combined Loading

4- Professional Activities:

Job Title	Place	Country	From	To
Associate Professor	Helwan University	Saudi Arabia-Egypt	2022	Current
Assistant Professor	Majmaah University-Helwan University	Saudi Arabia-Egypt	2011	2021
Teaching Assistant	Helwan University	Egypt	2005	2010
Lecturer	Helwan University	Egypt	1997	2004

5- Teaching Experiences

#	Teaching Experiences	University	From	To
1	Introduction of Mathematics	Majmaah University	2011	2012
2	Algebra and Analytical Geometry	Majmaah University	2011	2012
3	Mechanical Engineering Drawing	Majmaah University	2012	2016
4	Machine Dynamics	Majmaah University	2011	2022
5	Machine Element Design	Majmaah University	2012	2016
6	Mechanical Vibration	Majmaah University	2012	2018
7	Machine Elements Design	Majmaah University	2012	2020
8	Mechanical Design	Majmaah University	2012	2020
9	Machine Design LAB 1	Majmaah University	2021	2022
10	Machine Design LAB 2	Majmaah University	2021	2022
11	Materials Selection	Majmaah University	2021	2022

6- Areas of Specialization

#	Areas of Specialization
1	Materials Science
2	Fracture Mechanics
3	Piping Systems
4	Solid Mechanics
5	Carbon Fibers, Polymers and Composites.

7- Current membership in professional organizations

#	Membership	ID
1	American Society of Mechanical Engineering, ASME, USA	100136043
2	Egyptian Engineers Syndicate, Cairo, Egypt	36/05674
3	Innovation Center, Majmaah University, KSA	7

8- Publications (most important publications in the last 5 Years)

#	Publications / Presentations	Journal (Conference)	Publishing Year (Conference Date)
1	Evaluation of the infill design on the tensile response of 3D printed polylactic acid polymer	Materials	2021
2	Effect of Loading Rate and Pipe Wall Thickness on the Strength and Toughness of Welded and Unwelded Polyethylene Pipes	Journal of Pressure Vessel Technology	2021
3	Fracture Behavior of Cracked Ring Specimen at Different Crack Positions	Journal of Pressure Vessel Technology	2020
4	Investigation of fatigue crack propagation in steel pipeline repaired by glass fiber reinforced polymer	Composite Structures	2020
5	Thermo-Mechanical Contact Problems and Elastic Behaviour of Single and Double Sides Functionally Graded Brake Disks with Temperature-Dependent Material Properties	Scientific Reports	2019
6	Prediction of Mechanical Properties for Curved Dumbbell- Shaped Specimen at Different Orientation Angles of Ring Hoop Tension Test	Advanced Engineering Materials	2019
7	Crack Growth Behavior of Pipes Made from Polyvinyl Chloride Pipe Material"	Journal of Pressure Vessel Technology	2017

9- MAJOR RESEARCH PROJECTS

#	Research Project	Status (Now/Finished)	Funded by
1	An Implementation Method for Initiation and Measuring Crack Growth in Piping Systems	Finished	Majmaah University
2	Failure Analysis of Tube Materials using Nano fluid	Finished	Majmaah University