

Dr. Waleed Alkandari

Assistant Professor at PAAET

Date of Birth: July. 23, 1985

CTS, Building 4, 2029

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Interests

- 🞓 Automotive Engineering
- 🞓 Tire Development
- 🞓 Mathematical Modeling
- Advanced material (Viscoelastic)
- 🞓 Design using Optimization Techniques

Skills

Programming:

MATLAB	•	•	•	•	•
Python Subroutine	•	•	•	•	•
let _E x	•	•	•	•	•
Fortran	•	•	•	•	
C++	•	•	•	•	
R	•	•	•	•	
Tools:					
Multiscale Modeling	•	•	•	•	•
Physics Based Modeling	•	•	•	•	•
Analytic Math	•	•	•	•	•
Optimization	•	•	•	•	
CAD Tools:					
ABAQUS FEA	•	•	•	•	•
AutoCAD	•	•	•	•	•

Working Experience

March, 2022 – ongoing	Assistant Professor Assistant Professor of Automotive Engineering at Marine Mechanics Technology department, Faculty College of Technological Studies, PAAET.	
Sep, 2016 –	Member at CenTiRe	Virginia Tech., USA
March, 2022	Joined the Center for Tire Research as a member. Co about tire aging phenomena.	nducted a project
Jan, 2013 – Aug, 2016	Teaching Assistant Worked as a full-time Teaching Assistant (Faculty Automotive Engineering Department, instructed se courses, and participated in numerous departmen	everal automotive
Feb, 2009 – Aug, 2011	Rotating Equipment Engineer Worked as a maintenance engineer on a full-time ba equipment department of the Mina Al Ahmadi Refi	

Education

Postgraduate Studies

2016 – 2022	Ph.D. in Mechanical Engineering Virginia Tech, USA Title: Multi-Scale Physics Based Modeling of Tire Rolling Resistance Considering Aging. Grade: CGPA: 3.88					
	Rolling Resistance	Viscoel	astic	Gaussian Function		
	Surface Roughness	Damage Mechanics (CDM)				
2011 – 2013	M.Sc. in Automotive EngineeringLawrence University, USAGrade: CGPA: 3.97					
	Powertrain Systems		Automotive	Electrical Systems		
	Vehicle Dynamics	Body and Chassis Systems				

Undergraduate Study

2003 - 2008B.Sc. in Mechanical EngineeringKuwait Univ., KuwaitPrject Title: Design and improve the stability of a three-wheeled car.

Other Training

2009-2022 Training courses and conferences Attended numerous training courses and conferences

Short Bio

Waleed Alkandari is an assistant professor in the department of Automotive and Marine department at PAAET. In 2022, he received his Ph.D. in the mechanical engineering from Virginia Tech. In 2012, he earned a master's degree in automotive engineering from Lawrence Technological University, and in 2008, he earned a bachelor's degree in mechanical engineering from Kuwait University. He has researched on a variety of complex problems, including the modeling of nonlinear viscoelastic materials, friction physics, rolling resistance, and contact mechanics. Multiscale methods, Fourier transformation, Tire dynamics, Theoretical physics, and ABAQUS user subroutine development are among his many areas of expertise.