



# Abdulrazzaq Alali Jawish Alkherret

عبدالرزاق العلي جاويش الخريط

**Professor - Public Works  
Transportation Engineering  
Engineering Management**

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Date of Birth: March 13, 1970  
Marital Status: Married  
Nationality: Syrian

Address: 21 Saleh Al-Majali St., Jubayhah, 11941 Amman, Jordan.

## ACADEMIC QUALIFICATIONS

- **Ph.D. Civil Engineering “Public Works – Highways, Traffic and Airports Engineering”**  
Thesis Title: *“Video-Based Detection and Tracking Model for Acquiring Traffic Data”*.  
Cairo University, Egypt (January 2015).
- **M.Sc. Civil Engineering “Public Works - Highway and Traffic Engineering”**  
Thesis Title: *“Effect of Geometric Design Elements on Operating Speed for Multilane Roads”*.  
Ain Shams University, Egypt (December 2011).
- **B.Sc. Civil Engineering “Transportation Engineering”**.  
Syria (September 1996).

## ADMINISTRATIVE EXPERIENCE

### **DEAN OF FACULTY OF ENGINEERING**

April 7, 2024 – April 19, 2026 (In addition to the teaching assignments)  
Jerash University, Jordan

### **HEAD OF CIVIL ENGINEERING DEPARTMENT**

October 11, 2022 – April 6, 2024 (In addition to the teaching assignments)  
Faculty of Engineering, Jerash University, Jordan

### **DEAN OF FACULTY OF ENGINEERING**

October 1, 2020 – September 30, 2022 (In addition to the teaching assignments)  
Jerash University, Jordan

### **HEAD OF CIVIL ENGINEERING DEPARTMENT**

June 1, 2019 - September 30, 2020 (In addition to the teaching assignments)  
Faculty of Engineering, Jerash University, Jordan

### **SUPERVISOR OF ACCREDITATION AND QUALITY ASSURANCE OFFICE**

May 3, 2016 - May 31, 2019 (In addition to the teaching assignments)  
Faculty of Engineering, Jerash University, Jordan

## ACADEMIC AND TEACHING EXPERIENCE

### **PROFESSOR** (July 22, 2026– Present)

Faculty of Engineering, Jerash University, Jordan

### **ASSOCIATE PROFESSOR** (June 22, 2021– July 21, 2026)

Faculty of Engineering, Jerash University, Jordan

### **ASSISTANT PROFESSOR** (March 5, 2015 – June 21, 2021)

Faculty of Engineering, Jerash University, Jordan

### **ASSISTANT LECTURER** (October 1, 2012 – February 26, 2015)

Faculty of Engineering, Thebes Academy, Egypt (<http://www.thebesacademy.org>)

### **TEACHING ASSIGNMENTS (Bachelor of Civil Engineering):**

- Engineering Workshop
- Engineering Drawing
- Transportation Planning
- Transportation Engineering
- Highway and Traffic Engineering
- Highway and Airport Engineering
- Pavement Materials and Design
- Pavement Materials and Design Lab
- Road Maintenance
- Geographic Information Systems
- Remote Sensing

### **TEACHING ASSIGNMENTS (Master of Engineering Management)**

- Research Methodology and Methods
- Simulation Methods and Applications
- Traffic Safety Management

### **GRADUATE RESEARCH SUPERVISION, Master of Engineering Management (Current Projects)**

- The Impact of Data-Driven Project Management Systems on Cost and Schedule Performance in Saudi Highway Projects.
- The Impact of Project Management Practices on the Success of Digital Transformation Projects in Saudi Telecommunication Companies: A Quantitative Study Using Structural Equation Modeling (SEM).
- Developing a Risk-Based Decision-Making Model for Electrical Systems Maintenance: An Applied Study on Saudi Public Hospitals.
- Analyzing the Impact of Digital Transformation on Operational Performance: A Case Study of Energy Efficiency and Power Loss in Saudi Arabia's Transmission Networks.

### **RESEARCH ENGINEER (Civil Engineer, Graduate Student)**

January 7, 2007 – September 27, 2012

Unit of Highway Engineering Consultancy, Faculty of Engineering, Ain Shams University, Egypt

#### **Unit Projects and Research:**

- Regional road (Dahshur) reconstruction of Greater Cairo.
- Saft El-Laban - Kerdasa device reconstruction Greater Cairo.
- Ring road expansion a reconstruction of Greater Cairo.
- Street Development Project companies Cairo Oil Refining.
- Free road project at Beni Suef - Minya 95 km long (The Military Engineers).
- Asphalt mixers assessment based on the analysis of cracks resulting in thermal stress.
- Use rubble materials in asphalt mixes.
- Study and analysis of effect of gradation limits on the properties of asphalt mixers.

## PUBLICATIONS

- **Unlocking the Black Box of Traffic Safety Analytics: A Systematic Review of Explainable Artificial Intelligence (XAI) Applications**  
*Under review, Diyala Journal of Engineering Sciences*
- **Evaluating Facility Operation Management in Saudi Post Offices Through Key Performance Indicators**  
*Under review, International Journal of System Assurance Engineering and Management*
- **A Distributed Deep Learning Framework for Real-Time License Plate Recognition in Intelligent Transportation Systems**  
*Accepted in Tikrit Journal of Engineering Sciences, 2026.*
- **Evaluating GeoAI Tools for Urban Resilience and Sustainability: A Survey-Based Analysis of Disaster Preparedness, Climate Adaptation, and Adoption Barriers Using the Technology Acceptance Model (TAM)**  
*Frontiers in Built Environment - Construction Management, 2026.*
- **Approval-Sustainable Amelioration of Expansive Soils: A Comparative Study on the Utilization of Granite Powder Waste and Fine Silica Sand**  
*Accepted in Jerash for research and Studies, 2026.*
- **The Influence of Managers' Safety perceptions and practices on Construction Workers' Safety Behaviors in Saudi Arabian Projects: The Mediating Roles of worker's Safety Awareness, Competency and Safety Actions**  
*Safety Journal (MDPI), 11 (3), 77.2025 .*
- **Enhancing Safety and Crisis Management through Adaptive Leadership in Complex Construction Engineering Projects**  
*Safety Journal (MDPI), 11 (3), 85. 2025.*
- **Automated Design and Optimization of Concrete Flexural Members Reinforced with Stainless Steel**  
*Structural Concrete, 2025.*
- **Assessment of Project Management Knowledge Areas According to Risk Severity Levels: Highway Construction Contractors' View**  
*Jerash for research and Studies, Volume (25), No. (4), 2025.*
- **Influence of Voltage on Pore Water Pressure for Soft Soil Treated with Electro-Osmosis Technique**  
*Diyala Journal of Engineering Sciences, Volume (16) No (2), 2023.*
- **Material Waste in Construction Projects: Causes and Effects**  
*Journal of Southwest Jiaotong University, Volume 58 (3), June 2023.*
- **Pressure Settlement Behavior of Square Footing on Jerash Expansive Soil**  
*The Seybold Report Journals (TSRJ), Vol 18 No 01, 2023*
- **Modeling Operating Speed on Multilane Highways Using Global Positioning System Data**  
*International Review of Civil Engineering (IRECE), Vol 12 No 4, July 2021.*
- **Modeling the Estimation Errors of Visual-based Systems Developed for Vehicle Speed Measurement**  
*Int. Journal of Advanced Computer Science and Applications (IJACSA) Vol. 12, No 1; 2021.*
- **Using Fine Silica Sand and Granite Powder Waste to Control Free Swelling Behavior of Expansive Soil**  
*Modern Applied Science Journal; Vol. 15, No. 1; 2021.*

- **Factors affecting the swelling pressure for Jerash expansive soil**  
*Journal of Advanced Sciences and Engineering Technologies, Vol 3 No2, 25–November 2020.*
- **Theoretical Analysis of Factors Affecting Ultimate Nominal Load of Reinforced Concrete Axially Loaded Short Squire Columns (Pu) Comparing use PROKON Program**  
*Journal of Advanced Sciences and Engineering Technologies, Vol 3 No2, 25–November 2020.*
- **Building Information Modeling Strategy in Mitigating Variation Orders in Roads Projects.**  
*Civil Engineering Journal. Issue 10 of Volume 06, October 2020.*
- **Video-Based Detection and Tracking Model for Traffic Surveillance**  
*TRB 94<sup>th</sup> Annual Meeting, Washington, D.C., 15-1465(B10).*
- **Determining Microscopic Traffic Variables using Video Image Processing**  
*International Journal of Computer Applications, 104(6):10-19.*
- **Speed Prediction Models for Horizontal Curves on Multilane Roads in Egypt**  
*Egyptian Journal of Applied Sciences, 26(3).*

## COMPUTER SKILLS

- All Microsoft Office Programmes (Excel, word, Access, MS Project...etc.)
- AutoCAD Civil 3D, AutoCAD 2D+3D, 3D S MAX, SAS System, Photoshop, MATLAB, and SPSS.
- Certified Trainer (part time) – Syrian Computer Society SCS, Syria.
- Certified Trainer (part time) – Youth Club for Science, Syria.
- Technical Editor - CAD, GIS, & GPS Magazine (<http://www.cadmagazine.net>)

## PROFESSIONAL EXPERIENCE

### DEPUTY BRANCH MANAGER of Central Roads Office in Deir-Ezzor, Syria

### HEAD OF MAINTENANCE ENGINEERING AND TRAFFIC DEPARTMENT

### SUPERVISING ENGINEER

December 29, 1996 - December 28, 2006

Public Establishment for Road Communications, Ministry of Transportation, Syria

#### Practical Duties

- Chairman of the Committee overseeing the project through the maintenance of Abu Kamal – Deir-Ezzor first phase of a length of 40 km and width of 7.6 m. The projects included removing the old layer of pavement and improving shoulders.
- Chairman of the Supervisory Committee of road maintenance in transit in the city of Deir-Ezzor a length of 14 km.
- Chairman of the Supervisory Committee of maintenance and rehabilitation of the international road Deir-Ezzor - Damascus first phase of 62 km length of 8 meters width. The projects included removing the old layer of pavement and improving shoulders.
- Chairman of the Supervisory Committee of maintenance and rehabilitation of the international road Deir-Ezzor - Raqqa first phase length of 32 km and 7.6 m width.
- Chairman of the Committee overseeing the implementation of expansion joints in bridges of the province of Deir-Ezzor.
- Chairman of the Supervisory Committee on the paint road and traffic safety in the province of Deir-Ezzor.

## COURSES

- MATLAB - Technical Computing, Image and Video Processing. High Technology Center, Cairo University, Cairo, Egypt (2011).
- (2780) Maintaining a Microsoft SQL Server 2005 Database. VirgiTech Corporation, Cairo, Egypt (12<sup>th</sup> April to 7<sup>th</sup> May 2008).
- (2779) Implementing a Microsoft SQL Server 2005 Database. VirgiTech Corporation, Cairo, Egypt (18<sup>th</sup> Feb. to 12<sup>th</sup> Mar. 2008).
- Querying Microsoft SQL Server 2000 with transact-SQL. VirgiTech Corporation, Cairo, Egypt (16<sup>th</sup> Aug. to 26<sup>th</sup> Aug. 2007).
- Programming with C#. VirgiTech Corporation, Cairo, Egypt (15<sup>th</sup> Jul. to 7<sup>th</sup> Aug. 2007)
- 3D Studio MAX. Rida Computer Center, Damascus, Syria (7<sup>th</sup> Dec. 1999 to 7<sup>th</sup> Feb. 2000).
- AutoCAD 2D+3D. Rida Computer Center, Damascus, Syria (26<sup>th</sup> Oct. 1998 to 26<sup>th</sup> Jun. 1999)
- Maintenance of Roads and Bridges. Ministry of Transportation, Syria (10<sup>th</sup> to 14<sup>th</sup> Mar. 2001).
- Directorate of Laboratories and Scientific Research. Ministry of Transportation, Damascus, Syria (15<sup>th</sup> Jan. to 13<sup>th</sup> Feb. 1997)