

# Company Profile

2019-2020

An introduction and description of Expert Group engineering company, outlining its vision and strategic objectives for the years 2019-2020, and introducing the team of professionals behind the knowledge base by which the services are provided.

We are an Engineering Consulting Firm specializing in studies, planning and management beside training services for civil and transportation-related engineering projects. We provide service to both government and the private sector and are able to perform high-quality service in an expedited manner to meet rigorous schedules driven by regulatory agencies, funding cycles or other project constraints.

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### Foreword

At Expert Group (EG), we aim to utilize the thorough knowledge and long-standing experience of our team to provide masterly engineering works and services.

For the upcoming years, our mission is to be part of the effort to rebuild the infrastructure in Jordan, neighbouring, and other countries. Our confidence in providing a strong mixture of sound experience and technical knowledge allows us to be among the minds that create monumental infrastructure in the region.

Prof. Khair S. Jadaan  
Founder and CEO

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**EXPERT  
GROUP**

Expert Group is an engineering company established in Amman, Jordan in 2019. The ownership and rights of usage for all material in this document belong to the registered name and the founding individuals. All art works and media used are royalty free.

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## ABOUT US

An elite group of experts in civil engineering and other fields, ready to share their vast knowledge and experience in preparing the best engineering and design solutions.

The group includes professors and consultants with up to 40 years of experience. It incorporates both the deep theoretical knowledge along with the wide practical experience, ensuring the standards of work meet the expectations of the industry in this day and age. The company was

established in 2019 under this shared vision by its founders, professors: Khair Jadaan, Basim Jrew, Saad Abu Qdais, and Abdulrahim Taha, with the name 'Expert Group' which reflects the origin of establishment by a group of experts in the field of engineering.

Within less than a year, the company, with the help of the vast social networks of its founders, was able to contact and establish multiple networks consisting of experts in different disciplines across the world. Expert Group adapted this

method where, given a task consisting of a set of required skills, team formation techniques were applied with an aim to find a team of experts, who not only satisfy the requirements of a given task, but are also able to maintain the required technical and ethical standards on all levels of the task at hand.

Today, Expert Group provides planning, supervision, and consultation in addition to preparing feasibility & impact studies for major proposed projects, among other services.

## STRATEGIC OBJECTIVES

- Provide a standard of engineering service quality that fits the long term plans of the development of countries in the local MENA region for the upcoming years.
- Create more access to the immense knowledge and experience in the field, through different forms of education such as courses and seminars.
- Create additional partnerships with local and global organizations to further extend involvement in additional fields and benefit the industry as a whole.



## WHY US?

### Reliability

EG works closely with the client to ensure a successful project completion and timely project delivery.

### Experience

We have the technical expertise and know-how to take a project from concept to completion.

### Innovation

At EG, we provide innovative consulting solutions tailored to the unique needs of our clients.



## MISSION

To provide our customers with outstanding engineering consulting services, utilizing the finest trained professionals in the industry, focusing on integrity, quality, costs and service not only to our clients but also to our communities and employees.

## VISION

As an ambitious engineering firm operating with rectitude and professionalism We aim to supply consulting services that provide transformational enhancements to the regional and global community.

## CORE VALUES

- Quality Work
- Client Service
- Reliability
- Respect
- Integrity
- Dedication

## OUR TEAM OF EXPERTS



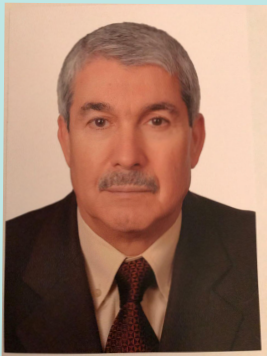
### **PROF. KHAIR S JADAAN**

**Founder**

Dr Khair Jadaan is a Professor of Transportation Engineering at the University of Jordan. He has 50 years of academic and practical experience in both developed and developing countries including UK (where he earned two postgraduate degrees), USA, Germany, New Zealand, Kuwait, Iraq and Jordan. Prof. Jadaan has over 40 years of practical experience covering various civil engineering projects for local, regional and international establishments. He worked as a consultant/advisor for Ministers of Transport and Municipalities (Jordan), Emiri Diwan, Supreme Traffic Council, and Ministry of Interior (Kuwait), Stoke Engineering Company (Germany), Works Consultancy Services (State-owned enterprise, New Zealand), UNICEF(Jordan), COMCEC(Turkey) in addition to 12

years as a Senior Engineering Advisor with the Arab Fund for Economic and Social Development (AFESD) in Kuwait. Prof Jadaan academic experience extends over a span of 38 years in teaching and research at Universities of Leeds and Bradford (England), California Berkeley and UOI at Urbana-Champaign (USA), Canterbury and Auckland (New Zealand), Baghdad (Iraq), Kuwait, and University of Jordan. He taught several undergraduate and postgraduate civil engineering courses, supervised many theses and has published over 250 scientific papers in international Journals and conferences. He Chaired many local, regional and international conferences and is a member of the Editorial Board of four international journals two of which are SCOPUS indexed.





## PROF. BASIM JREW

### Founder

Graduated in 1985 from Georgia Institute of Technology in the United States, with a PhD in Transportation Engineering, Professor Basim Jrew is a Consultant Engineer at the Iraqi Engineering Union. He was a head of two consultation engineering bureaus at two Iraqi universities. He was also a member of Al-Edreesy Consultation Center at the Ministry of Housing and Reconstruction in Iraq, and a Chairman of Civil Engineering Consultation Committee at the Ministry of Industrialization in Iraq. Professor Basim Jrew was previously Dean of the College of Engineering in three universities in Iraq: University of Tikrit, University of al-Mustansyria, and University of Technology. He is currently a

professor at Isra University in Jordan. His main research and consultation is within the fields of highway and traffic system management, pavement management and highway and traffic safety. Professor Basim supervised nine PhD dissertation and 18 MSc. thesis in different fields of transportation engineering in Iraq. He also supervised 22 MSc. thesis in transportation and engineering project management in Jordan. Professor Basim has over 30 years of teaching undergraduate and graduate studies in different countries, he published 62 scientific papers in national and international journals.



## OUR TEAM OF EXPERTS



**DR. SAAD ABU QDAIS**  
**Founder**

Dr Saad Abo-Qudais is a Professor of Civil Engineering at Jordan University of Science and Technology (JUST). He was honored his Bachelor degree from JUST in 1990 and he was honored his Master and Doctor of Philosophy Degrees from Virginia Tech in 1992 and 1995, respectively. His research and consultation interests lie in the area of pavement Materials, design and Maintenance, Traffic and Environmental engineering and Impacts Assessment. He is a certified Trainer in Management of Change, Leadership, Debating and Presentation Skills, and Training of Trainers. He is currently the Vice President for Scientific Research and International Cooperation at Al-Balqa Applied University. He has also served as Vice President for Academic Affairs at University of Jazeera in Dubai(UAE), Head of Engineering and Nano-Technology Research Committee at Scientific Research Support Fund, Education and Training Advisor at Consolidated Contractor Company (CCC), Dean of Al-Huson University College, Vice Dean of Engineering, Vice Dean at Faculty of Graduate Studies, Coordinator of Transportation Division, and project manager for several projects. He supervised more than 70 master thesis and graduation projects and taught 22 courses at Bachelor, Master, and Ph.D. Levels. He organized and attended several conferences and workshops. Professor Abo-Qudais published 56 papers in international referenced journals and conferences. Professor Abo-Qudais served as transportation, traffic and environmental impact, highway materials and pavement management and maintenance specialist in several local and international engineering consultation projects. Through the years, he was awarded Abdul Hameed Shoman Award for Young Researchers, U.S.A. Sealant Council Fellowship, U.S.A. Center for Adhesive and Sealant Science Fellowship, U.S.A. National Civil Engineering Honor Society Prospective Member (Outstanding Academic Performance Membership).



## ENG. ABDULRAHEEM TAHA

**Founder**

Eng. Abdulrahim holds a master's degree in biomedical engineering (1990) and is a registered holder of Certified Project Manager (CPM) certificate. He is now the CEO of Sundos for Innovation and Development, which was founded in 1999, and is the first Arab company to specialize in supporting innovation, entrepreneurship, and developing ideas. In addition to that, he is also the CEO of The International Center for

Expert Systems, L.L.C, which was founded in 2000, and specializes in Artificial Intelligence (A.I) applications and advanced medical devices and programs. Eng. Abdulrahim also has 2 registered patents for developing two methodologies of supporting and nurturing innovation and entrepreneurship. These methodologies are called The Big Picture and The Developed Branching Thinking approaches.



## ENG.ABDELQADER OKASHA

**Technical Engineer**

Eng. Abdelqader gained his bachelor's degree in Civil Engineering from the University of Jordan in 2015. For the following two years, he worked as a structural engineer and gained sound practical experience in the field. He is currently pursuing his second bachelor's degree in Computer Engineering at Princess Sumaya University for Technology. Abdelqader published two research papers related to his field of interest: modeling environmental impact of traffic using artificial neural networks. He has been recently developing standalone ANN modeling tools to be used in prediction models for his research.



## ENG. AHMAD HERZALLAH

**Technical Engineer**

Eng. Ahmad graduated in 2019 from the University of Jordan, with a bachelor's degree in civil engineering. He has an excellent academic record and has graduated with an excellent GPA (3.73/4.0). As an undergraduate student and a member of the Junior Research Team in the Department, Eng. Ahmad worked on and published three research papers in various topics in transportation engineering. Also, in his graduation project, Eng. Ahmad prepared a full geometric and track design for a proposed railway network for Jordan, and as such has gained significant knowledge in the field.

# SERVICES

EG Engineering has the expertise and resources to support a wide range of engineering services. We are structured to provide a quick, efficient response to the project needs of our clients. Our services include the following :



## CONSULTATION

The vast number of years of experience and involvement in the industry allows our experts to convey critical information and pinpoint the most efficient approaches to solving a problem at hand. Our experts are certified and registered as professional consultants by multiple engineering unions and entities worldwide, and have provided consultation and insight for more than 30 clients throughout the years.



## FEASIBILITY STUDIES & FINANCING

The financial evaluation of any project is an essential part of its early life; planning is greatly enhanced by identifying information and economic aspects which indicate the feasibility of proceeding. Our experts have a track record in providing clients with professional advice in the financial evaluation of proposed developments of multiple types and sizes, in the form of technical feasibility studies, expected cost, and economic/financial viability studies. Additionally, our team of experts has a network of connections and the market knowledge necessary to provide financing advice, securing funds for projects of different domains.





## IMPACT STUDIES

Our team members have over 40 years of experience in preparing impact studies (traffic and environmental) on different scales, both for developed and developing countries. With a deep theoretical background and modern modelling techniques, we offer insight and future projection of the impact a project has on multiple environmental and civil aspects. In addition, our group provides financial insight through value engineering and feasibility studies.



## VALUE ENGINEERING STUDIES

The purpose of Value Engineering studies is to identify ideas and implement solutions that might reduce costs, refine scope definition, improve design functionality, improve constructability, improve coordination/schedule, and provide other value improvements to the overall project without compromising quality. Dealing with funding agencies and consulting firms, our experts have had years of experience preparing Value Engineering studies for a wide range of engineering projects, and are ready to help you reduce costs and increase the efficiency of the implementation of your project's tasks.



## EXPERT OPINION & ARBITRATION

With knowledge and experience gained throughout the years filling engineering, managerial, and senior advisory and consulting positions at world renowned institutions and agencies, our team of professors are willing to present their expert opinion and provide their input to address engineering disputes and litigation, solving problems that occur in engineering projects, and providing solutions to evident or obscure disputes halting the progress of operations. Being acquainted with FIDIC contracts in construction and engineering industry, our experts are confident in providing the proper solution and settle disputes for a myriad of conflicts.



## TRAINING

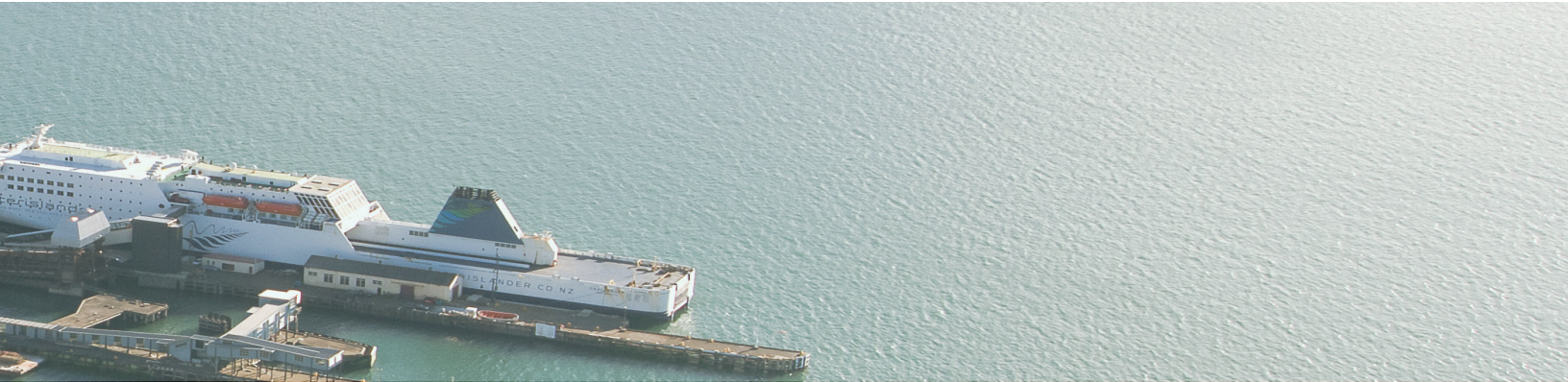
As the world continues to grow with an accelerated pace, market requirements are getting more and more demanding for engineers and members of the work force. Our experts are here to bring you up to speed with the latest innovations in the field of transportation engineering and civil engineering disciplines at large, helping you acquire the knowledge and skills needed to distinguish yourself within the market. We offer workshops and training courses on topics such as Railway engineering, 'superpave' mix designs, Intelligent Transport Systems (ITS), Transport System Management (TSM), Value Engineering, Water and wastewater and more.

# OUR PROJECTS



We provide all civil engineering disciplines required for development under one roof focusing on transportation engineering, water and wastewater services. Known for housing some of the most well-known transportation and water experts in the region ; EG prides itself in the high quality of this specialized service. Each of our staff has decades of experience and is excited to share their expertise. The accomplishment list of our team is too long to be listed. However, the listed projects hereunder are selected from those that EG team members had fully executed and/or participated in executing part of the scope of work as subject matter experts.

- Khaifa Bin Salman Port and Industrial Area at Hidd, (Financing and Loan Management), Bahrain
- Bahrain Specialist Hospital, Bahrain
- Development of Djibouti Port, (Financing and Loan Management), Djibouti
- Limited - Income Housing, Djibouti
- Inland Nile Waterway, Egypt
- Analysis and Evaluation of Traffic Accidents for Principal Urban Streets in Erbil City, Iraq
- Improvement of Multilane Airport Highway in Baghdad, Iraq
- Development of Pavement Maintenance Management System of Multilane Highway, Iraq
- Development of Safety Audit Indices for Rural Road, Iraq
- Development of Public Transportation System Management and Operation in Baghdad, Iraq
- Evaluation and Design Treatments for Two-way Two-lane Highway Level Terrain, Iraq
- Development of Delay Model for Arterial Street in Baghdad City, Iraq
- Development of Accident Prediction Models for Erbil Urban Area, Iraq
- Evaluation of the Use of Remote Sensing Techniques for Highway Alignment Layout, Iraq
- Analysis, Evaluation, and Improvement of the Level of Service of Two-lane Highway, Jordan
- Analysis, Evaluation, and Prediction of Traffic Accident Cost, Jordan
- Strategic Development of Transportation Demand Management, Jordan
- Management of Superpave Asphalt Concrete Mixture, Jordan
- Maintenance Management for Airport and Airfield, Jordan
- Traffic Management, Al-Mafraq, Jordan
- Second Tourism Project in Al-Salt, Madaba, and AlKarak, Jordan
- Roads and Infrastructure Assessment and Management Systems for the Municipalities of Irbid and Alzarqa, Jordan
- Environmental and Traffic Impact Assessment of Al-Ghabawi Solid Waste Dumping Site, Amman, Jordan
- Master Plan for Zarka City, Jordan
- Jordan Railway Network Development (Feasibility study, Project Management Plan, HSE studies), Jordan
- Hijazi Railway Rehabilitation Study, Jordan (Funded by COMCEC)
- Road Safety of School Children, Jordan (Funded by UNICEF)
- Amman Development Corridor (ADC), Jordan
- Prince Hamza Hospital, Jordan
- National Road Safety Strategy, Jordan



- Evaluation of Pedestrian Bridges and Pedestrian Safety, Jordan
- The Effect of Driver Behavior Mistakes on Traffic Safety, Jordan
- Evaluation and Improvement of Signalized Intersection in Amman, Jordan
- Controlling Variation Orders in Highway Projects, Jordan
- Evaluation of Traffic Flow and Traffic Network Management System, Jordan
- Management of Multilane Highway, Jordan
- Improvement of the Random Housing in Agadir, Morocco
- Social Housing in Alrabat, Morocco
- Wellington Urban Motorway (Traffic Noise and air pollution studies), New Zealand
- Cavesham Valley Road Realignment, New Zealand
- SH 88 Road Safety Study, New Zealand
- Manual of road Safety Audit, New Zealand
- Management of Traffic Accident Costs, Oman
- A New Port and Dry Dock Complex at Duqm, Oman
- Southern Expressway, Oman.
- Development of Traffic Accident Models, Oman
- Saudi German Group of Hospitals in Asir, Riyadh and Madina (Financing ), Saudi Arabia
- Traffic Impact Assessment of the Ministry of Hajj Buildings, Makeh, Saudi Arabia
- Traffic Impact Assessment of Al-Matlaq Towers, Jadeh, Saudi Arabia
- Assessment of Random Housing Regions in Damascus, Syria.
- Ariha – Latakia Highway,(Financing and Loan Management), Syria
- Der Al-Zour Al-Bokamal Road(Detailed Design, Value Engineering study), Syria
- Improvement of the Infrastructure Services for Random Housing, Syria
- Traffic Impact Assessment of Manazel Development, Abu-Dhabi, UAE
- Speed harmonization - design speed vs. operating speed, Illinois DOT, USA
- Comprehensive Traffic Management Study for Sana'a City, Yemen
- Hodiedeh Central Hospital (EIA Study), Yemen
- Sana'a – Alhodeidah Road (Feasibility and detailed Design), Yemen
- Development of Sana'a International Airport, Yemen
- Sana'a Master Plan, Yemen
- Al-Siteen street/Al-Ryassh Intersection (Value Engineering study), Yemen
- Design of Sana'a Al-Hodiadeh Road, Yemen, Sana'a Traffic Management, Yemen
- Arab Railway Network Feasibility Study (TOR, RFP evaluation and Financing)
- Photovoltaic Road Lighting Management System
- Developing Prediction Models Using Innovative Techniques: Artificial Neural Network and Safety Performance Function

## OUR PARTNERS



# kpff

### KPFF

KPFF was founded in 1960 in Seattle, Washington. Since that time, the firm has grown in both size and stature. Today, it is a multi-office, multi-discipline engineering firm, with 20 offices in the US and internationally, and more than 1,000 employees. KPFF's specialized in mainly architecture and built environment, in addition to transport and infrastructure projects, and it specifically offers engineering services in the fields of Structural Engineering, Civil Engineering, Mechanical Engineering, Construction Management, Specialty Engineering, Transportation and Infrastructure, Surveying, Ports and Waterfront, and Protective Design.

# CEC

### CEC

Consulting Engineering Company has been established in Kuwait in 1965 by DR. M.H. ALI EL-SAIE, the Owner and Managing Director. The firm established its Cairo office in Egypt in 1983 and is also registered in the UAE and in Sultanate of Oman. The projects in hand at the firm have a value of US\$ 26,236,000,000, and since its establishment the office has been engaged in different fields of engineering especially: power generation plants; water desalination plants; mechanical and chemical cleaning equipment; water distribution and transmission systems; structural, civil and building works and many other engineering works.

## EXPERT GROUP

### COLLABORATIONS AND SISTER COMPANIES

We believe in the added value of perspicacious and objective research, and the necessity of considering input from different points of view. That is why we constantly look to form agreements for collaboration with firms of different backgrounds, creating a network of experts to be referenced or consulted as needed, enriching the knowledge and resources of our group. The very first collaboration was created in parallel with the formation of the group. It was established between the group and the center for innovation and development: Sundos®. This partnership stemmed from the shared vision of the two groups, and the mission of combining experience and innovation to deliver high quality solutions that withstand the test of time. Today, our group continues to seize opportunities of mutual benefit with other firms around the world, expanding the network of experts and producing more solid outcomes.



#### SUNDOS

Sundos is a center established for creating an innovative change in the region, specialized in developing businesses through various famous methods among of which is "Big Picture Development" and "Branch Thinking Development". They are currently focused on developing cutting edge and innovative business ideas that go along the trends in technology worldwide, such as machine learning, artificial intelligence and IoT solutions. The partnership between EG and Sundos was among the firsts to be established, for the purposes of enriching the group with the innovative knowledge available and increase its competitiveness within the market.

#### VISION FOR 2020

At EG, we are constantly looking to form more strategic partnerships and further expand our network. We have placed a vision for the year 2020 during which we will be reaching out to potential firms around the world, forming alliances and connections that will further extend our impact and actuate our vision for the upcoming years.

**EXPERT** GROUP



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