

CURRICULUM VITAE

20/04/2025



PERSONAL DATA

Name: **HANI AL NAGHI**

Nationality: Lebanese

Date of Birth: August 7, 1975

Linked in www.linkedin.com/in/alnaghi/

Email : alnaghi@gmail.com

Telephone: UAE +971-55-750 2558
KSA +966-50-783 0869
USA +1 (317) 721 1133
LEBANON +961-3- 422088

SHORT BIO

Transportation Engineering Expert with a demonstrated history of working in local and regional projects in the areas of transportation engineering (Planning, Design, and Policy) since 1999. Specialized in urban mobility, traffic engineering, road design and safety, parking strategies, crowd management, logistics, and public transport. Skilled in big data analytics, mathematical formulation, algorithmic sciences, multicriteria decision analysis, advanced modeling and design in Geographic Information Systems, Macro/Micro Traffic Simulation, and CAD/CAM. Strong professional with a PhD in engineering and a lecturer at the Faculty of Engineering and Architecture at the American University of Beirut.

EDUCATION

Degree **PhD** in Civil Engineering / Transportation Engineering (2014)

Institution American University of Beirut

Degree **Master of Engineering** in Civil Engineering / Transportation Engineering (2005)

Institution American University of Beirut

Degree **Bachelor of Engineering** in Civil Engineering (1999)

Institution Notre Dame University

PROFESSIONAL SKILLS

Urban Transportation Planning
Transportation System Analysis
Transportation Strategies & Policy Dev.
Transportation Economics
Geometric Design of Highways and Streets
Traffic Impact Studies & TMP

Pedestrian Analysis & Crowd Management
Traffic & Logistics Management
Road Safety Audit
Public Transport Systems (Bus and Rail)
Intelligent Transportation Systems
Geographic Information Systems

COMPUTER SKILLS

ESRI ArcGIS, CityEngine, Autodesk (Civil 3D, Vehicle Tracking), EMME/4, Dynameq, Legion, PTV (Visum, Vissim), Synchro, Sidra, Arcady, Pathfinder, AutoTurn, HCS, IHSDM, HDM-4.

LANGUAGE SKILLS

Excellent command of English and Arabic (written and spoken), average in French.

PROFESSIONAL EMPLOYMENT

Affiliation/Employments:

Transportation Engineering Expert

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| Dubai Roads and Transport Authority (RTA - http://www.rta.ae/) | 2023 to 2025 |
| Laceco Intl. (http://www.laceco.me/) | 2012 to 2023 |
| Dar Al Omran (DAO), Riyadh (http://www.daralomran.com/) | 2022 to 2023 |
| Dar Al Handasah (DAHNT) (http://www.daralhandasah.com/) | 2015 to 2022 |
| SETS Intl. (http://www.setsintl.net/) | 2004 to 2014 |
| Ministry of Public Works and Transport, Lebanon | 2007 to 2008 |
| IBI Group (Beirut Office, http://www.ibigroup.com/) | 2000 to 2001 |
| GIS/Transport Ltd., Beirut (http://gistransport.com/) | 1999 to 2011 |

KEY PROJECTS

- Dubai Transport Demand Management, Study for Public Transport Fares and Packages, UAE (RTA 2025)
- Dubai Transport Demand Management, Policies for Expanding Truck Ban, UAE (RTA 2024)
- Dubai Transport Demand Management, Policies for Parking and Congestion Pricing, UAE (RTA 2024)
- Dubai Transport Demand Management, Policies for Expanding Flexible Work Practices, UAE (RTA 2024)
- Feasibility Study for Dubai Low Emission Zones, UAE (RTA 2023)
- Traffic Impact Study, Uptown Jeddah - Engagement Center, Arts District, and Corporate Headquarter, Jeddah, **KSA** (Laceco, 2023)
- Traffic Impact Study, NEOM Construction Village (*Contractors' Camps, Pop.15,000/site*), **KSA** (Laceco, 2023)
- Transportation Master Plan (RIBA Stages 0, 1, & 2), Archaeological Fieldwork Basecamp in Al Ula, **KSA** (DHK&A, 2023)
- Traffic Study for the Louisville Development in the Eko Atlantic City in Lagos, **Nigeria** (ITB, 2023)
- Transportation Master Plan, Al Khandaq Battle Archaeological Site Development Project in Al Madinah Al Munawara, **KSA** (DAO, 2023)
- Transportation Master Plan, Linah Historic Market and King Abdul Aziz Palace Redevelopment Project, Northern Province **KSA**, (DAO, 2022)
- Transportation Master Plan, Irtah District Redevelopment Project in Riyadh, **KSA** (DAO, 2022)
- Transportation Master Plan for the Al Zorah Beach Village, Ajman, **UAE** (Laceco, 2022)
- Parking and Traffic Impact Study, Jeddah Courthouse Complex, Jeddah, **KSA** (Laceco, 2022)
- Traffic Impact Study, Plot 21 Mariam Island, Sharjah, **UAE** (Laceco, 2022)
- Conceptual Transportation Masterplan (RIBA Stages 0, 1, & 2) for the Liwa Festival Development in Tal Moreeb, Abu Dhabi, **UAE** (DAHNT, 2022)
- Road Safety Expert, Lebanon Roads and Employment Project (REP) funded by the World Bank, Lot#2 Design and Supervision [Loan/Grant#8705-LB/TF0A4481RFB#PW003], **Lebanon** (DAHNT, 2021-22)
- Traffic Impact Study for the “Marriott's Hotel Autograph Collection”, Kalba, **UAE** (Laceco, 2021)
- Traffic Impact Study for the “Kalba Mall Development” in Sharjah, **UAE** (Laceco, 2019)
- Feasibility Study of the “Tripoli Eastern Ring Road / Arab Highway”, **Lebanon** (Laceco, 2018)
- Redesign of the Traffic Signs and Guide-Signs for Municipal Beirut, **Lebanon** (DAHNT, 2018)
- Traffic Impact Study for “Al Mamsha Development” in Sharjah, **UAE** (Laceco, 2017)
- Terminal Building Capacity Analysis Study, Al-Ain International Airport, **UAE** (DAHNT, 2017)
- Project Manager, Institutional Capacity Development of the Railway and Public Transport Authority, Development of the national transportation strategy, institutional framework and policy development, **Lebanon** (United Nations Development Program UNDP, 2016)
- Traffic and Parking Study for a new multistory parking facility for the American University of the Middle East (AUM), encompassing 8 floors and 1280 cars, **Kuwait** (AUM, 2016)
- Beirut R.H. Int. Airport, Feasibility and Design for the A380 Upgrade (Development of the Passenger Terminal Building and Landside Ground Access “Traffic and Parking” Studies to accommodate the A380 operations), **Lebanon** (DAHNT, 2015)

- Traffic Impact Study for the Manateq Headquarter, Qatar Economic Zone 1 at Ras Bufontas, **Qatar** (Laceco, 2015)
- Project Manager, Réseau d'Action en matière de Mobilité Urbaine Durable (RAMUD), EU funded Project (ENPI CBC MED RAMUD ref. I-B/2.2/063), Design of an integrated Public Parking and Taxi Station, "Etude préalable pour la définition fonctionnelle de l'avant projet de la station des taxi-services", **Lebanon** (SETS, 2014)
- Transportation Master Plan for the Saudi National Guards Housing Development in KAUST, Thuwal, **KSA** (Client: Aramco) (Laceco, 2014)
- Project Manager, Concept Design of the National Guards Road and its connections with the 2nd Ring Road, Riyadh, **KSA** (SETS, 2013)
- Parking Study for the American University of the Middle East (AUM) campus (3,500 parking spaces), including: access strategy, circulation, layout redesign, and operational mitigations, **Kuwait** (AUM, 2013)
- GIS Team Leader, GIS conversion and integration of all "AsBuilt Drawings - Phase 1: Prototyping and development of the GIS database model" of the King Abdul Aziz International Airport (KAIA, General Aviation Civil Authority, **KSA**), (Saudi Binladen Group/SEEAS, 2013)
- Transportation Master Plan for the "Khashim Al-Aan Master Plan Project", (Saudi National Guards Housing Project), Riyadh, **KSA** (Laceco, 2012)
- GIS Expert, GIS conversion of all "As-Built drawings of the new water network for the City of Tripoli and El-Mina, Lebanon" (Eddeh & Moawad Contractors, 2012)
- Transportation Master Plan for Dhahiat Sumou Development (4 Km²) in Makkah, **KSA** (SETS, 2012)
- Transportation Master Plan for Bawabat Makkah Development (Pop. 1 million / 83 Km²), **KSA** (SETS, 2011)
- Makkah & Masha'ir Parking & Pedestrian Studies with Ministry of Higher Education, **KSA** (SETS, 2011)
- Feasibility Study for the upgrade of "Enugu-Port Harcourt Road" (210Km), a World Bank PPP project in the Enugu District, **Nigeria** (GIST, 2011)
- Feasibility Study for the "Nupeko Bridge", a World Bank PPP project in the Niger District, **Nigeria** (GIST, 2011)
- Prioritization of Future Primary and Secondary National Roads using Multi-Criteria Evaluation Framework and the development of a Transport Policy using GIS decision making tool, Ministry of Transport, **KSA** (SETS, 2010)
- Traffic Impact Study for the "Sunrise Hills" development, in Abuja FCT, **Nigeria** (GIST, 2010)
- Feasibility Study for "Calabar-Okuni Road" (164 Km), in Cross River District, **Nigeria** (GIST, 2010)
- Makkah & Masha'ir Rail Evaluation Study, Center of Research Excellence at Hajj Research Institute, **KSA** (SETS, 2010)
- Transportation Expert, Transportation Master Plan for the "Reconstruction of Naher Al-Bared Camp" United Nations, **Lebanon** (UNRWA, 2010)
- GIS and Planning Expert, Project: "Capacity Building for of the Directorate General of Urban Planning", EU funded project by the Swedish International Development Agency. United Nations Development Program, **Lebanon** (UNDP, 2009)
- Transportation Master Plan of Al-Zorah Development (Pop. 250,000) in Ajman, **UAE** (SETS, 2009)
- Pedestrian & Traffic Impact Study for the Abdali Central Market Place, Amman, **Jordan** (Laceco, 2009)
- Redesign of the "Al-Rashid Street" development plan in Baghdad, **Iraq** (GIST & Dar Al Mimary, 2009)
- Member of "Al-Haram Expansion Study Committee – Transport Track": responsible for the development of a traffic model and the GIS Kit for Makkah central area and the coordination and support of the various consultants working on the "Integrated Transport Solutions for Makkah Central Area": IBI Group, AECOM, Steer Davies Gleave, Systra, Parsons Brinkerhoff, and the Massachusetts Institute of Technology. **KSA** (Ministry of Higher Education, 2008-2009)
- Support to the Ministry of Public Works: infrastructural GIS database and road rehabilitation & maintenance planning. Support to the General Directorate of Urban Planning, including implementation and development of a GIS application and training. (Ministry of Public Works and Transport, 2007-2008)
- GIS services for implementing and mapping including GIS/GPS training for the project: "Outsourcing of Solid Waste Collection and Transportation, Street Sweeping & Cleansing to Al-Ain North Zone", **UAE** (Nael Bin Harmal-Lavajet JV, 2007)

- Study for the Revitalization of the Public and Freight Transport Industry in Lebanon, funded by the World Bank, **Lebanon** (WB Loan No.: 7123-LB), (SETS, 2006-2007)
- Logistics and Planning Officer, UNJLC Joint Logistic Center / World Food Program, including: Developing the GIS system of the center, Route planning of WFP convoys, Hazard to Movement maps, Support to the Ministry of Public Works for bridge road damage assessments, **Lebanon** (United Nations Joint Logistic Center, 2006)
- Mobility Planner, SMAP Project (Funded by European Commission), “Urban Air Quality Improvement through Air Quality and Mobility Plans & the Institutional Strengthens of Local Administration on Air Quality”, the project was implemented in cities where environmental audits were carried by “MedCities” in collaboration with “METAP” in Tripoli/Lebanon, Larnaca & Limassol /Cyprus, and Tetouan /Morocco, (MedCities 2005-2006)
- Pedestrian & Traffic Impact Study of Darb Al-Khalil Development, Makkah, **KSA** (SETS, 2005)
- Pedestrian and Traffic Impact Study of Al-Shamiyah Development, Makkah, **KSA** (SETS, 2005)
- Traffic Impact Study of Saraya Aqaba Development, **Jordan** (SETS, 2004)
- Traffic Impact Study of Al-Abdali Urban Center in Amman, **Jordan** (SETS, 2004)
- Traffic Impact Study for Al-Murra District, **Qatar** (SETS, 2003)
- Traffic Study for the Signalization of Al-Rayyan corridor in Doha, **Qatar** (SETS, 2003)
- Design and implementation of the GIS applications, data, and training for the North Lebanon Water Authority and ONDEO Liban, (GIST, 2003)
- Traffic impact study for the “Beautification of Al Jumeirah Road #R819” in Dubai, **UAE** (GIST, 2002)
- GIS and EMME/2 modeling for the “Tripoli Eastern Ring Road Feasibility Study” and the Traffic Study for the “Deir-Ammar – El-Aabdeh” corridor (IBI Group, 2001)

ACADEMIC EMPLOYMENT

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| Date | 2016 to 2022 |
| Title | Lecturer (Part Time) |
| Employer | American University of Beirut – AUB (https://www.aub.edu.lb/) |
| Description | Teaching “ <i>CIVE460: Transportation Engineering</i> ”, “ <i>CIVE461: Highway Engineering</i> ”, “ <i>CIVE666: Public Transportation</i> ” Supervising Civil Engineering Final Year Projects |
| Recognition | AUB Teaching Excellence for Spring 2019 Semester |

PUBLICATIONS

1. “Commuters’ Behavior Towards Upgraded Bus Services in Greater Beirut: Implications for greenhouse gas emissions, social welfare and transport policy”, *Ali Chalak, Hani Al-Naghi, Alexandra Irani, Maya Abou-Zeid*, Transportation Research Part A Policy and Practice 88:265-285, June 2016.
2. “Measuring Aggressive Driving Behavior Using a Driving Simulator: an exploratory study”, *M. Abou Zeid, I. Kaysi, Hani Al-Naghi*, Accident Analysis & Prevention, Elsevier 2011 – presented at the TRB conference on Road Safety and Simulation, Indianapolis 2011.
3. “Transportation Planning of Squatter Developments”, *H. Al-Naghi, and N. Nehme*, Institute for Operations Research and the Management Sciences, INFORMS Annual Meeting, Austin, Texas November 2010.
4. “A GIS-Based Framework for Multi-Criteria Evaluation and Ranking of Transportation Corridor Alternatives”, *Hani Al-Naghi, Isam Kaysi, Salah Sadek*, World Conference on Transport Research (WCTR), Berkeley 2007.
5. “Al-Fayhaa Urban Mobility Plan – SMAP Air Quality Project”, *H. Al-Naghi, MedCities SMAP UAQP*, Lemesos (Cyprus), March 2006. [Link](#)
6. “A GIS-Based Landslide Hazard Framework for Road Repair and Maintenance”, *Salah Sadek, Ramzi Ramadan, Hani Al-Naghi*, Electronic Journal of Geotechnical Engineering 2005.
7. “Evaluating Alternative Transit Options Using GIS, A Case Study on Northern Beirut Corridor”, *Isam Kaysi, Hani Al-Naghi*, GEOTec, Toronto, Canada 2002.
8. "A GIS-Based Translator for Multimodal Transport Planning Software EMME/2", *Isam Kaysi, Hani Al-Naghi*, Ninth International Conference in Civil and Building Engineering, Taipei, Taiwan 2002.