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CURRICULUM VITAE

Name: Jacques-Samir Georges EKMEKJI

Founder: seeCOSM S.A.L (Holding) and
seeCOSM Inc. USA

Marital Status: Married and blessed with daughter, Karma

Languages: Arabic (Excellent)
English (Excellent)
French (Good)
Armenian (Fair)

Year of Birth: 1945

Year Established: 2004

Year of Incorporation: 2004

Professional Career Overview:

Jacques Ekmekji is founder and president seeCOSM S.A.L. (Holding) a Lebanese Based Company and the founder and President of seeCOSM Inc., a Delaware corporation that engages in spatially enabling the e- “see”, to provide seeSolutions, by integrating Geographic Information Systems (GIS), Spatial, Communication, 3D Intelligent Visualization and converging Technologies.
www.seecosm.com

Prior to founding seeCOSM in 2004, Mr. Ekmekji was a Director of the Lebanon based Khatib & Alami (K&A), a major multidisciplinary Engineering Consulting firm ranked by the ENR among the top 100 international design firms and among the top 10 regionally.

In addition to his long years of Environmental, Planning, industrial, and GIS experience Mr. Ekmekji's managerial and leadership qualities were vested in several areas of Khatib & Alami's operation. Main duties, as Director, covered the following activities.

1. (1978-2003) Associate, Shareholder and Member of the Board of Directors of Khatib & Alami with all its duties and responsibilities engaged in fulfilling the mission of the firm; www.khatibalami.com
2. (2000-2003) Board member of the American Consolidated Engineering Company (AmeriCEC); CA, USA. An affiliate company of Khatib & Alami; www.americec.com
3. (2000-2003) Board member of ArabiaGIS, Beirut – Lebanon. A Web-based GIS provider and affiliate company to Khatib & Alami; www.arabiagis.com and www.lebanonatlas.com
4. (1978-1983) Head of the Environmental Department
5. (1978-1983) Resident Manager of Saudi Consolidated Engineering Company (SCEC) Eastern Region of the Kingdom of Saudi Arabia.
6. (1978-1983) Deputy Managing Director of the Joint Venture of Metcalf & Eddy International Inc. (Boston - USA) and SCEC better known as MESCEC.
7. (1983-2003) Director-in-charge of the Saudi Arabia Design Office Operation. An operation that provides, since 1975, General Engineering Services to several government agencies, the

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Arabian American Oil Company (Saudi ARAMCO), and the private sector. In the last two decades, some 2.0 Million design hours and 2.0 Million hours in construction services were completed under Mr. Ekmekji's directorship. Present yearly capacity is 250,000 hours spread over two design offices namely Khobar, and Jeddah;

8. (1990-2003) Director-in-Charge of the Geographic Information Systems Services Division (GISSD). The division grew in knowledge, expertise and size from three (3) in 1990 to more than 120 by 2003. Among the projects executed and successfully completed under Mr. Ekmekji's directorship are the following. A brief GIS project profile is presented below.

#	Project Title	Start Date	End Date
1	Oman Land Information System Study Design LIS/GIS project	1988	1990
2	DEDDE Community Development Project	1991	1994
3	Design and Implementation of a National Base Mapping System	1992	1993
4	Lebanon's Staged Wastewater Program (LSWWP)	1994	1994
5	SOLIDERE's Integrated Spatial Information Systems (ISIS)	1994	1995
6	Mechref Community Development (MCD)	1994	1996
7	Environmental Impact Assessment (EIA) for Power Generation and Transmission Project in Lebanon	1995	1996
8	Enterprise GIS for Electricity of Lebanon	1994	On-going
9	Ministry of Electricity & Water Geographic Information System-Oman	1998	1998
10	AM/FM/GIS for Port of Beirut (GISPOB)	1998	1998
11	Building Damage Assessment (BDA)	1998	1999
12	GIS Electricity of Zahle (GISEZ Project)	1999	1999
13	ESCWA GIS-Based Nodal Transportation System	2000	2000
14	Muscat Municipality GIS	2000	2001
15	SEWA GIS-Based Asset Management System for GAS Distribution Project (Turnkey Project)	2000	2001
16	GIS Consulting Services for Saudi Aramco	2000	2001
17	Health Care GIS for the Ministry of Public Health - Lebanon	2000	2001
18	GIS-Based 3D-Intelligent Building System for an Oncology Treatment Center (OTC), Saudi Aramco.	2000	2001
19	www.arabiagis.com , www.lebanonatlas.com	2000	On-Going
20	National Geographic Information Infrastructure for Lebanon (NGII)	2000	2002



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#	Project Title	Start Date	End Date
21	Abu Dhabi Water & Electricity Authority (ADWEA) Enterprise GIS Project a true Digital Utility	2001	2002
22	GISEL-Distribution Operation Support (GISELDOS) for Beirut Municipal Area, Electricity of Lebanon (EDL).	2003	2004
23	GIS-Based Project Tracking System for Council of Development and Reconstruction (CDR), Lebanon	2003	2003

Education:

B.Sc. in Civil Engineering, American University of Beirut (AUB) - 1971

Computer Skills:

Software Packages: ArcView, ArcGIS; MacProject, MS Project, 4th Dimension, MS Office, MacWrite, Microstation Mac, MacDraw, Photoshop, SuperPaint, OmniPage, Internet Operating Systems: Mac and PC

Professional Memberships:

- Beirut Order of Engineers and Architects 1971-todate;
- Right to exercise the Engineering Profession in the Lebanon issued by the Lebanese Ministry of Labor and Social Affairs 1971-to date;
- Life member of the American University of Beirut (AUB) Alumni.
- American Society of Civil Engineers - Saudi Arabia Section;
- Founding Member of the Lebanese Association of Armenian Engineers and Architects.
- Water Environment Federation
- Director and Board Member of several Community services, Schools, Universities, and Institutions.
- Member of Engineering and Architecture Alumni Chapter of AUB;

Professional Experience:

1971 - 2003: With Khatib & Alami (Consolidated Engineering Company) starting as a design engineer on the study and design of various environmental projects such as the Zuru Water Supply Scheme in Nigeria, the Dammam & Al Khobar water, sewers and STP extension project, the Qatif villages wastewater and swamp disposal system, the Safwa water supply, wastewater and stormwater drainage system, and the Dammam & Al Khobar stormwater drainage systems all in Saudi Arabia.

In 1975 Mr. Ekmekji was promoted to Project Engineer and in 1978 to head of the Environmental Department. In the same year Mr. Ekmekji was made an associate of the firm and appointed Resident Manager for the Khobar Office. Among his duties as Resident Manager, Mr. Ekmekji was the official representative of the company (Saudi CEC-K&A) in the Joint Venture projects with Metcalf & Eddy International Inc. (Boston - USA) better known as MESCEC, in his capacity as Deputy Managing Director in charge of overall management of the JV, business promotion, contract

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negotiations, programming and follow up of the construction supervision works. A position which he held till 31 December 1983.

During his tenure in the Khobar Office the scope of the Khobar office activities expanded both in professional expertise and size to grow from 25 employees in 1978 to over 300 employees by December 1983.

In December 1983 Mr. Ekmekji was transferred to Beirut head office where he was promoted to Director-Special Assignments.

Partial list of representative projects is presented below. It covers a wide range of duties and responsibilities including Strategic Planning, Project Management, Studies, Designs, Construction Management and Supervision, Commissioning, and post commissioning support:

1. Corporate GIS, Electricity Of Lebanon (GISEL), December 1993 - on Going

Project Director of the first corporate Geographic Information System (GIS) project to be implemented at a company wide level in the Lebanon. Contracted by the Eléctricité Du Liban (EDL) to conduct an Automated Mapping/Facility Management/ Geographic Information Systems (AM/FM/GIS) study to modernize, automate and informate the electric power system of the Lebanon utilizing the GIS approach, Project GISEL is a pioneering project, which has set the industry standard for the Lebanon's GIS future. The works are also being carried in association with Environmental Systems Research Institute (ESRI) and in close collaboration with the American University of Beirut (AUB) the Faculty of Engineering and Architecture (FEA). EDL services more than 1.0 million electric subscribers.

GISEL project featured in chapter 4 of the book “Enterprise GIS for Energy Companies”, an ESRI publication;

The GIS approach being implemented at EDL and applied to the Lebanese Electric Power System (LEPS) provides, in phased stages, an integrated, operational, automated mapping and facility management (AM/FM/GIS) information system intended to support the efficient planning, monitoring, and operations and maintenance of the entire electric power system for the Lebanon. In brief it is an Enterprise GIS solution. Applications include: daily tasks from meter reading to strategic planning; mapping customer and utility data; modeling operations; analysing the distribution; generating work sketches; tracing networks; producing maps; tracking and monitoring facilities; storm restoration; planning real-time distribution automation; facilities management; energy control; transformer load management; and plant accounting. A US\$ 22.0 Million in design, implementation, hardware, software, application development, customization, integration, interfaces, operation and maintenance and training.

Client: Electricity of Lebanon (EDL)
Mr. Kamal Hayek, Chairman of the Board/Director General



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2. Abu Dhabi Water and Electric Authority (ADWEA) Enterprise GIS Project; February 2001- On-going

A fast track, turn key project that meets the automation, information, and communication needs of ADWEA by addressing the business processes of its water and electric Transmission and Distribution companies. A US\$ 12.0 Million in design, implementation, hardware, software, and training.

Client: Abu Dhabi Water and Electric Authority (ADWEA)
Mr. Mohamad Al-Jabri, GIS Project Manager

3. Web enabled Lebanonatlas project. www.lebanonatlas.com 2000-On-going

A GIS powered web site that meets the needs of the public at large, the professionals, and businesses in general through three main modules: (i) City Guide; (ii) Business Geographics, and (iii) GIS Pro. A site visit is encouraged. The site is powered by ArcGIS, ArcIMS and ArcSDE all products of ESRI.

Client: ArabiaGIS www.arabiagis.com
Mr. Jalal Fawwaz, General Manager; Jacques Ekmekji, Director

4. Sharjah Electricity & Water Authority (SEWA) GIS-based Asset Management System for Gas distribution project:

A fast track, turn key GIS implementation that includes needs identification, design, building seamless database, application development, system integration, training, and deployment. The SEWA GAS activity is built around Gas Production, Transportation, Distribution, Operation & Maintenance, and Related activities. The aim of this vital GAS project is to connect all residential, industrial and commercial areas with natural gas. A US\$ 1.5 Million in design, implementation, hardware, software, and training.

Client: Sharjah Electricity and Water Authority (SEWA)

5. 3D Intelligent Building Maintenance Management System:

This project is for preparation of 3D Model Intelligent Building Maintenance Management System for the Oncology Treatment Center, Dhahran Health Center, that will graphically illustrate and interact with the components and locations of the various systems in the facility. The developed model and database include architectural, HVAC, sweet water, raw water, drainage systems, electrical, data, voice, medical gases, and all systems.

The scope of work includes data collection, drawings review, field verification of as-built conditions, user needs survey, need assessment analysis, conceptual database design, system concept, physical design of the operation of the database, model database development, design of user applications, training, on-site system implementation, assistance and follow-up, QA/QC and project management.

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Client : Dhahran Health Center, ARAMCO, Kingdom of Saudi Arabia
Client Representative : Mr. Roy Yared

6. Lebanon's Staged Wastewater Program (LSWWP), April 1994 - November 1994

Project Director of the pre-feasibility study for a staged wastewater program for the Lebanon based on well defined wastewater drainage basins which is environmentally, technically, and economically viable.

In order to enhance the analytical capabilities and decision making process of the LSWWP project, GIS was used to integrate, store, and manipulate spatial data. The geographic information system (GIS) was used to transfer maps and other spatially related data into digital formats and combine them in a single geo-referenced file. The different forms of spatial data which were collected included: population data for all the cities, towns, and villages of Lebanon, administrative boundaries, permanent and seasonal rivers, all classifications of roads, watershed areas, land cover/use classifications and, the proposed sewer networks of the 1982 National Waste Management Plan (NWMP82).

The spatial coverage and features were obtained from map sheets of scales 1: 100,000 and 1:50, 000.

Client : Ministry Of Environment
Client Representative : Mr. Andre Sassine/ Mr. Anthony Douglas SIU-1

7. Mechref Community Development (MCD), August 1994 - June 1996

Project Director for the development of a Master plan, preliminary design, final design, and the contract documents for a three hundred (300) hectares community development in a rugged mountainous area in the southern environs of Beirut, Lebanon. From the start of the project the Geographic information Systems (GIS) technologies were used to complete the Master Plan and all related infrastructure works. The environmental aspect of the project was a prime considerations including the careful evaluation of the natural habitat and ecological values of the site.

The most modern and up-to-date information technologies namely the geographic information system (GIS) has been utilized to simulate the actual site conditions, perform site analysis, and provide the most viable, executable, and economical solutions for the MCD.

The first step was to produce digital topographic and planimetric maps of the site from 1991 aerial photographs. The digital maps were then edited, restructured and transformed into a suitable GIS format A Digital Terrain Model (DTM) for the entire site was then developed using a TIN extension. The GIS approach was utilized through out the Master Planning stage. Other GIS features and coverages such as national road network, water shed areas, population settlements, land covers and land uses, and main utilities were integrated in the process to provide a real world site condition for planning purposes.

Client: Mechref Company
Client Representative: Peter Katrib

8. Saudi Aramco General Engineering Services (GES) Contract, 1975 to 2003

Director, Design and Development: Duties include providing special expertise in design, project and office management, contract negotiations, quality assurance and control (QA/QC), technology and media update, proposal development, planning and project follow up. Type of projects cover both industrial and infrastructure related projects. Some One Million design hours were worked in the last five years. The type of projects undertaken in the last five years fall under the following broad categories:

A/C Plants, Industrial Buildings, Bulk Plants, Community Planning, Construction Services, Facility Design, Flow Lines, Grading, Irrigation, Instrumentation, Land Scaping, Site Development, Sewer Rehabilitation, Utuilities, Reservoirs, Warehouses, Treatment Plants, Bulk Plants, Communication Systems, Trouble Shooting, and Process.

Client: Saudi Aramco, Dhahran - Saudi Arabia.

Client Representative: Contract Administration Unit, (CAU), Saudi Aramco.

9. Dammam & Khobar Water, Wastewater and Sewage Treatment Plant Extension Project, 1972 to 1981

Total project man-hours: 1,000,000+; Project design hours 80,000; total project cost US\$ 600 Million.

Specific Duties:

1972 - 1975: Design Engineer. Participated in all aspects of the project (systems, networks and facilities) with the Joint Venture Firm of Metcalf & Eddy and Saudi Consolidated Engineering Company.

1975 - 1978: Participated in the bid evaluation and assisted in construction contract award.

1978 - 1981: Deputy Project Manager on the construction supervision of the Khobar water, wastewater, and sewage treatment extension project. Supervisory staff comprised of 50 engineers, inspectors and surveyors. Construction cost US\$. 200 Million.

Client : Water and Sewerage Authority, Dammam, Saudi Arabia

Client Representative: Director General, H.E. Abdallah Babtain

10. Dammam & Khobar Stormwater Project, 1975 to 1984

Total project hours: 300,000; Project design hours: 25,000; construction cost US\$ 100M.

Specific Duties:



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1975 - 1978: Project Engineer on the design of the stormwater drainage system and pump stations for both Dammam and Khobar. With the Joint Venture of Metcalf & Eddy and Saudi Consolidated Engineering Company.

1978 - 1980: Manager-in-charge of the bid evaluation and tender award of the construction work. Construction value US\$. 175 Million.

1980 - 1983: As Resident Manager of Saudi Consolidated Engineering Company and Deputy Managing Director of the joint venture firm of Metcalf & Eddy and Saudi Consolidated Engineering Company. Duties extended from supervising all aspects of the construction works to office management of the entire Khobar office operation. Total Khobar office staff consisted of 300 people with offices in Dammam, Qatif and Safwa.

Client : Ministry of Municipal and Rural Affairs, Riyadh, Saudi Arabia
Client Representative: Mayor of Dammam

11. Safwa Water, Sewer, Storm Drainage Facilities, 1975 to 1978

Total project hours: 65,000 Design + 230,000 Supervision, construction cost US\$ 60M.

Specific Duties:

Senior Project Engineer (Head of Environmental Department). Study and design of the water distribution, wastewater collection, treatment and disposal, and stormwater drainage facilities. Estimated population 32,000. 91 km of water lines, elevated concrete water tank (2,000 m³) stand pipe (4,000 m³), 53 km sewer lines, sewer pump stations, house connections. 11 km storm drainage sewers, lift station and a tertiary sewage treatment plant capacity 5 MGD.

Client : Water and Sewerage Authority, Dammam, Saudi Arabia
Client Representative: Director General, Abdallah Babtain

12. New American University Hospital in Beirut, 1968 to 1971

Engineer in training, with William Crow Construction Company of New York USA, on the phase-I and Phase-II of the New American University Hospital in Beirut. Tasks ranged from labor work to supervision of construction.

Client : American University of Beirut
Client Representative: AUB Buildings and Grounds

13. New International College (IC) Meshref Campus, February to August 1971

Site Engineer with William Crow Construction Company of New York USA.

Client : International College (IC)
Client Representative: Shahe Soghikian Consulting

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14. Guest speaker and GIS orientation seminars and workshops speaker and team leader.

- Participated in projects debriefings and presentations of the works described above for project acceptance and approval and fund allocation.
- Guest speaker, on Reconstruction Plans for the Lebanon, at the Society of American Military Engineers (SAME) held in Dhahran Air Base, Saudi Arabia in November 1983.
- Guest speaker, on Reconstruction Plans for the Lebanon, at the American Business Men Association held at the Meridian Hotel in Khobar, Saudi Arabia March of 1984.
- Initiated, in 1990 under severe and turbulent security conditions, the first GIS awareness seminar in the faculty of Engineering and Architecture at the American University of Beirut (AUB). An event that launched GIS in the Lebanon.
- Initiated, in 1992 the first GIS Day in the Lebanon and the Region.
- Since 1988, conducting GIS Awareness and Orientation Seminars locally and regionally. The purpose of those seminars is to expand GIS awareness among the different development sectors. Particular emphasis is put on Universities where special support is provided in form of research support and training. A complete list of those seminars and workshops could be provided upon request.
- Participated with papers in local, regional, and international conferences. Partial list follows
 - Department of Planning, Abu Dhabi Emirate, United Arab Emirates Project Management Conference, December 5-7, 1993 Participated with a paper on: "The Role of GIS in Total Quality Management and Project Management" Contact Person: Chairman of Planning Department, H.E. Musallam Saeed Abdulla Al Qubaisi and/or conference director Mr. Ahmad Abdulla Al Tamimi
 - American Society of Civil Engineers Conference on Save the Environment organized by the Saudi Arabia Section (SAS), the Lebanese International Group (LIG) and the Ministry of Environment held in Beirut in November 1995. Participated with a paper titled "GIS case studies from Lebanon"
 - Distribution Automation/Demand Side Management (DA/DSM) conference held in Rome in November 1995. Participated with a paper titled "Implementing Company-Wide GIS at Electricité Du Liban" at the pre-conference Arab Symposium as well as in the exhibition.
 - "Implementing GIS in the Lebanon: A Case Study" at the GIS/GPS Conference'97 Doha, Qatar. Contact Person: Zul Jiwani, Head of GIS Center of Qatar.

- Faculty of Engineering & Architecture (FEA) of the American University of Beirut (AUB), December 1996. Conducted a Seminar on "GIS Applied to Community Planning - The Case of the Mechref Community Development. Contact Person: Nabih Sinno, Chairman Architectural Department.
- Presented a paper at the Water Environment Federation WEFTEC-1998 in Orlando, Florida titled "A Nationwide Pollution Abatement Program for Lebanon, Using GIS Analysis"
- Speaker at the SEATTLE GIS Strategic Direction Forum held on Tuesday March 21, 2000 and organized by the City of Seattle, WA. USA. The Seminar was held at the Bell Harbor Conference Center. Main focus was GIS implementation in Utilities. The case of the Enterprise GIS at Electricity of Lebanon.
- Speaker at ESRI's GIS Executive Leadership Seminar which was held at the San Diego Convention Center on Sunday June 25, 2000. Following Jack Dangermond address, which focused on GIS "The Vision" Ekmekji addressed the participants on "Implementing the Vision of GIS". A panel discussion, moderated by Dr. Roger Tomlinson, followed the two presentations.
- Speaker at the GIS Forum in Dubai, UAE organized by the Institute for International Research (IIR) from April 28-30, 2003. A new term was introduced by the speaker: The "SEE-" concept the acronym for "Spatially Enabled Electronic". A term, which is far more comfortable than the lone standing "E-" e-government or e-commerce, since it weaves visualization in cyberspace.
- Speaker, on the topic of "GIS applications", at the 2002 TERMIUM-GITEX conference and exhibition held in Beirut, Lebanon.
- Author of the "see-"Concept. Please refer to the May 2003 issue of Geo:connexion magazine under Geo:Strategy. For the complete article please refer to: <http://www.geoconnexion.com/magazine/article.asp?ID=757>
- Course Director and instructor at a 5-day course titled 'Managing GIS Projects' held between July 12 and 16, 2003 at the Movenpick Hotel in Beirut, Lebanon. The Course was organized by PROJACS International – Training and Development Group.
- Member of the Roundtable on Building the Information Society in Western Asia "ICT as an Enabler for Economic Development" organized by the United Nations Economic and Social Commission for Western Asia (ESCWA) in Beirut on April 29-30, 2004 and guest speaker on the topic of "Evolving from 'e-' to 'see-' by Spatially Enabling the E-" <http://www.escwa.org.lb/wsis/meetings/apr04/docs.html>