

EDUCATION

Master of Science | Electrical Engineering | Telecommunications
Telecom ParisTech | Paris, France

Bachelor of Science | Electrical Engineering | Control Systems
Paul Sabatier University | Toulouse, France

PERFORMANCE PROFILE

29-year engineering management experience designing, developing, integrating and delivering large-scale intelligent transportation systems (ITS) to departments of transportation and toll agencies. Experienced in managing the development of advanced technological solutions.

Senior-level business management professional. Recognized expert in technologies, applications and strategies for the intelligent transportation systems and renewable energy industries. Effective in high-profile management roles, managing large project teams and overcoming complex business and technical challenges. Adept at communicating complex concepts to technical and non-technical audiences. Experienced in maintaining impartiality in politically charged environments.

Assertive and diplomatic with strong communication skills. Multicultural and multilingual—speaks fluent English, French and Arabic; reads Spanish, Italian, German and Dutch.

PATENTS

Co-author of patent application titled “Floating Filtration Apparatus Transfers Seawater without Harm to Marine Life.”

Co-author of patent application titled “Forward Flow Filter Cleaning.”

PROFESSIONAL COMPETENCIES

- Engineering management
- Operations management
- Strategic planning
- Thought leadership
- Business development
- Program management
- Project management
- R&D management
- Cross-functional/cultural team leadership
- Performance measurement and evaluation
- Risk management
- Business process management

TECHNICAL COMPETENCIES

- Intelligent transportation systems (ITS)
- Connected/autonomous vehicles
- Systems engineering
- Renewable energy
- Seawater desalination
- Telecommunications
- Radio frequency identification (RFID)
- Wireless sensor networks
- Automatic control
- Supply chain management
- Domestic and international standards

PROFESSIONAL EXPERIENCE

Integral Scientific Institute **2015 – Present**
Dallas, Texas
[Co-Founder and President](#) 2015 – Present

The Integral Scientific Institute is a think tank that is developing a unique, coherent paradigm of study and action focusing on interrelationships between water resources, food production, energy security, transportation efficiency, and climate policy. Achieving an integral understanding of the water-food-energy-transportation-climate nexus is crucial if we are to take responsible actions toward making our social and economic activities compatible with having a sustainable natural environment.

Alfatero **2011 – Present**
Dallas, Texas
[Founder and Principal Consultant](#) 2011 – Present

Alfatero is a provider of professional services in the areas of intelligent transportation systems (ITS), electronic tolling, logistics and energy. With a deep scientific, technological and engineering background, Alfatero is able to provide systems engineering and integration, business process management and risk management services to meet client needs of key initiatives in transportation, logistics and energy. Alfatero creates added value for its clients by helping them reach their business targets and develop new business potential through the implementation of winning advanced system solutions and market strategies.

HDR **2008 – 2010**
Dallas, Texas
[National Director of Toll Technology and Professional Associate](#) 2008 – 2010

Responsible for managing the design of advanced transportation solutions, including the use of electronic toll collection systems to mitigate traffic congestion and increase the efficiency of existing transportation infrastructure. Advised clients on electronic toll program policy, planning, design, development, deployment and operations. Had capture strategy role in large-scale transportation infrastructure projects. Coordinated overall corporate toll technology strategy. Projects included the “Analysis of the Administrative Costs of Collecting Revenues under the Current Fuel Tax System as Compared with a Direct User Charge System” for the U.S. Department of Transportation, Office of Economic and Strategic Analysis, and the “Cordelia Eastbound I-80 Commercial Vehicle Enforcement Facility Technology Integration” for the Solano Transportation Authority in California.

TransCore / Amtech **1993 – 2008**
Dallas, Texas
[Director of Advanced Toll Solutions](#) 2002 – 2008
[Director of ITS Product Management](#) 2000 – 2002
[Senior Staff Engineer](#) 1998 – 2000
[Research Engineer](#) 1993 – 1998

Held several positions related to R&D management of advanced toll and traffic systems, RFID product management, corporate strategic standardization and systems engineering and integration. Provided support of overall corporate RFID product strategy and life-cycle process. Managed outsourcing projects. Served as Project Editor of the ISO 18000-6 RFID standard. Served as US Delegate to ISO committees on Transport Information and Control Systems and on Freight Containers. Served as member of committees of the Transportation Research Board (TRB), American

Standards for Testing and Materials (ASTM), Institute of Electrical and Electronics Engineers (IEEE), and Intelligent Transportation Society of America. Major achievements include primary role in the delivery of New York City's MTA B&T E-ZPass® toll program, Florida's Turnpike SunPass® toll program, Orlando's OOCEA express toll lane program, and the world's first reversible open road toll (ORT) bridge to the Tampa Hillsborough Expressway Authority in Tampa, Florida. This project earned several awards including the 2007 IBTTA President's Award, as well as the 2007 Chairman's Award from the Transportation and Expressway Authority Membership of Florida (TeamFL) for the Transportation Innovation Project of the year. Achievements also include primary role in the delivery of Florida's first high occupancy toll (HOT) lanes on I-95 between Miami-Dade and Broward counties. This project earned the 2009 American Association of State Highway and Transportation Officials (AASHTO) People's Choice Award.

Texas Transportation Institute
College Station, Texas
[Assistant Research Scientist](#)
[Engineering Research Associate](#)
[Research Associate](#)

1984 – 1993

1991 – 1993

1986 – 1991

1984 – 1986

Held several positions related to R&D in automated traffic and pavement data acquisition systems, and advanced sensor technologies for vehicle detection, classification, and weigh-in-motion. Designed and developed embedded systems for the acquisition and monitoring of vehicular traffic using several vehicle detector technologies. Major achievements include primary role in the delivery of a portable weigh-in-motion (WIM) system to the Defense Nuclear Agency (DNA) to use in the verification of the Strategic Arms Reduction Treaty (START) and involvement in the development of the early concepts of the heavy vehicle electronic license plate (HELP) program, which was implemented later as the electronic pre-clearance program known as PrePass®.

AWARDS

Co-author of the 2014 MIT Climate Contest award-winning entry titled "Stop Groundwater Plan – Save \$8 Billion." This entry describes a plan based on desalination and clean energy technologies.

Co-author of the 2015 MIT Climate Contest award-winning entry titled "Make Climate a Top Priority for Action by Every Global Citizen and Organization."

Co-author and finalist in the 2015 MIT Climate Contest with an entry titled "Saving Hoover Dam."

Co-author and finalist in the 2015 MIT Climate Contest with an entry titled "Stopping Unstoppable Sea Level Rise."

PUBLICATIONS AND PRESENTATIONS

More than 30 publications. List available upon request.

CONTACT INFO

Email: said.majdi@alfatero.com
 Phone: +1 (214) 842-6430