

CARL SHAFLIK, PEng 夏辉林

SPECIALTIES: Intelligent Transportation Systems
Traffic Management Systems, Roadway Safety
Highway Electrical and Mechanical (E&M) Systems
Construction Supervision and Project Management
Traffic, Electrical, Illuminating, and Civil Engineering

PROFESSIONAL SUMMARY

Carl Shaflik, PEng, has over 30 years experience in the civil and electrical engineering fields for transportation and highways projects.

During the past 25 years, he has specialized in the implementation and deployment designs, as well as construction supervision and inspection, of: Intelligent Transportation Systems (ITS), freeway and expressway traffic management systems, roadway safety systems, traffic signal systems, roadway and area lighting, highway electrical facilities, and highway signing systems. Furthermore, fully knowledgeable of highway traffic control and electrical systems design standards and construction specifications, he has also undertaken major research and standards development for several government departments most notably, the Transportation Association of Canada, Alberta Transportation, and the British Columbia Ministry of Transportation. To this end, he has participated as a major team member, and well as team leader, in the development of various design and construction manuals for a multitude of government departments and ministries, including: the Electrical and Traffic Engineering Design Manual, the Highway Guide Signing Design Manual, the Electrical and Signing Materials Standards, and the

Electrical and Signing Construction Standards for the British Columbia Ministry of Transportation.

Carl Shaflik has over 20 years experience in construction engineering and project management of transportation projects including, cost analyses, construction estimates, and financial accountability. He is also fully conversant with FIDIC conditions and contract documents.

Earlier in his career Carl Shaflik has worked as a designer and drafter in the production of traffic and electrical related engineering designs; worked as a legal and engineering surveyor; and has undertaken construction layout.

Carl Shaflik's commitment to excellence is demonstrated by his decision to return to university as a part-time graduate student and pursue a Master of Engineering Degree in Transportation Engineering and Construction Management, specializing in ITS. This choice of specialties directly coincides with his unique combination of traffic and electrical engineering experience to provide superior service to advanced highway and transportation infrastructure construction projects.

RESPONSIBILITIES

- Oversee – as well as directly develop – the implementation and deployment designs, construction engineering, and project management of traffic engineering, roadway safety engineering, and ITS disciplines for transportation infrastructure construction projects.
- Act as Engineer of Record and Construction Engineer for traffic and electrical engineering disciplines of transportation infrastructure construction projects.
- Liaise with consultants, contractors, product suppliers, manufacturers, project owners and clients, government agencies, third party stakeholders, and in-house personnel.
- Coordinate design and construction work under FIDIC conditions.
- Review and provide comprehensive reporting of all Traffic Engineering Systems.
- Conduct research, studies, surveys, technical analyses, and report writing.

CAREER EXPERIENCE

EMPLOYER:	Shaflik International Inc	2004 - on
	Whistler, BC, Canada	
Position:	President	
	Shaflik Engineering Ltd	1975 - 2004
	Burnaby, BC, Canada	
Position:	Vice-President, Engineering	1980 - 2004
	Senior Project Engineer	1994 - 2003
	Senior Project Manager	1987 - 1994
	Project / Construction Manager	1984 - 1987
	Senior Designer / Technician	1979 - 1984
	Engineering Designer / Drafter	1975 - 1979

SECONDMENTS FOR INTERNATIONAL PROJECTS:

	LEA International	Ontario, Canada
	Louis Berger Group	New Jersey, USA
	Kampsax A/S (COWI A/S)	Copenhagen, Denmark
	Wilbur Smith Associates	South Carolina, USA
	Japan Overseas Consultants	Tokyo, Japan
	Danish Road Directorate	Copenhagen, Denmark
	Trow International	Ontario, Canada
	SNC – Lavalin	Quebec, Canada
	Snowy Mountains Engineering (SMEC)	Cooma, Australia
Position:	Senior Foreign Traffic Engineer (E&M and Roadway Safety Systems)	

EARLIER CAREER EXPERIENCE

EMPLOYERS:	Aplin & Martin Engineering Ltd	1974 - 1975
	McElhanney Surveying and Engineering Ltd	1972 - 1973
Position:	Surveyor / Instrument Person	

EDUCATION

BASc	Civil Engineering, University of British Columbia, Vancouver, BC	1995
Course	National ITS Architecture Course, Virginia Tech, Washington DC	2000
Courses	MASc, Transportation Engineering and Construction Management (ITS Specialty), University of British Columbia, Vancouver, BC	in progress
Courses	Computer Programming, Douglas College, New Westminster, BC	1987
Courses	Computer Programming, Douglas College, New Westminster, BC	1984
Course	Traffic Signal Systems, Northwestern University, Chicago, Illinois	1980

PROFESSIONAL AFFILIATIONS

Member	APEGBC , Assoc of Professional Engineers and Geoscientists of British Columbia
Member	APEGGA , Assoc of Professional Engineers, Geologists, and Geophysicists of Alberta
Member	IESNA , Illuminating Engineering Society of North America - IESNA Roadway Lighting Committee / Tunnel Lighting Sub-committee
Member	ITS Canada , Intelligent Transportation Systems Society of Canada
Member	IDA , International Dark-Sky Association
Member	IMSA , International Municipal Signal Association
Member	CEBC , Consulting Engineers of British Columbia
Member	ACEC , Association of Consulting Engineers of Canada (FIDIC representative)
Resisted with:	Asian Development Bank (ADB) – Consultant Code 018156 Caribbean Development Bank (CDB) African Development Bank (AfDB) – Registration No. 00077259

CITIZENSHIP

Canadian Irish European Union

LANGUAGES

	Speaking	Reading	Writing
English:	Excellent	Excellent	Excellent
Mandarin:	Poor	Fair	Fair

PUBLICATIONS AND TECHNICAL PAPERS

British Columbia Driver Information Display System - A History of Development	1999
Integration of the Field Components of Traffic Engineering Systems & ITS - Design Considerations for a Freeway Traffic Management System	1997
Traffic Signal Detector Locations - Proper Positioning Increases Efficiency & Safety	1996
Light Pollution - Environmental Effects of Roadway Lighting Systems	1996
Design / Build Projects - Legal Implications for the Engineer	1995

(If you are having trouble downloading these documents they are also available at www.shaflik.com.)