

EDUCATION

- ◆ College of Geographic Sciences, Nova Scotia, Canada
Adv. Dipl. In GIS and Remote Sensing, 1999
- ◆ University of Toronto, Canada
Bachelor of Applied Sciences and Engineering,
Civil Engineering, 1993



PROFESSIONAL LICENSES AND SOCIETIES

- ◆ Registered Civil Engineer in California, 76089
- ◆ Registered Professional Engineer, Province of Ontario (Canada), #90392465
- ◆ Member, American Society of Civil Engineers

EXPERIENCE

08/07-Present **MBK Engineers, Sacramento, CA**
Project Engineer/GIS Specialist

Project Management: Perform program and project management duties to support design and construction activities specific to the Natomas Levee Improvement Program (NLIP). Manage development of GIS for Sacramento Area Flood Control Agency (SAFCA) specific to right-of-entry and encroachment data management.

GIS: Perform complex spatial analyses for hydraulic analysis, groundwater modeling, and water rights claims and contracts. Provide GIS support and cartographic exhibits for external and internal clients.

08/05 – 07/07 **Carter & Burgess, Inc., Sacramento, CA**
Senior GIS Specialist

Coordinate and perform GIS duties for engineering and planning projects in the areas of traffic management, land development and water resources. Perform business development duties for company-wide GIS. Provide GIS mentorship and coordination to junior staff.

12/01 – 08/05 **HDR, Inc, Anchorage, AK and Folsom, CA**
GIS Programmer/Analyst

Perform GIS lead duties for FEMA's Map Modernization program for counties in Arizona and California. Develop automated mapping tools and analysis functions specific to transportation engineer and environmental planning projects. Provide GIS mentorship and coordination to junior staff.

- 09/99 – 12/01** **GeoNorth, LLC, Anchorage, AK**
GIS Programmer/Analyst
- Perform spatial analyses and develop automated functions within GIS and remote sensing applications. Perform technical lead duties for various projects involving scientific and planning tasks for private and public-sector clients.
- 08/97 – 08/99** **College of Geographic Sciences, Nova Scotia, Canada**
Student/Researcher/Teacher's Assistant
- 06/93 – 07/97** **Greater Toronto Airports Authority, Toronto, Canada**
Project Engineer
- Perform project engineering and construction supervision tasks for airside and terminal development projects. Responsible for inspection, monitoring and review of design and specifications and ensuring scope, budget and quality of work were maintained for the duration of a project.

SOFTWARE KNOWLEDGE

PROGRAMMING LANGUAGES:	VBA, AML, Avenue, Python, C, Visual Studio, SQL, Fortran
GIS/CAD:	ArcGIS 9.3, Arc/INFO, ArcView 3.x, AutoCAD 2008,
REMOTE SENSING:	MicroStation
DATABASE:	PCI Easi Pace, ImageWorks, GCPWorks, OrthoEngine AE, ERDAS Imagine 8.3
GPS:	INFO, dBASE, Oracle, MS Access
HYDRAULIC MODELING:	Trimble ProXT, GeoXT, GeoExplorer, Pathfinder Office HEC-RAS, HEC-GeoRAS

CONTINUING EDUCATION SEMINARS, FORMAL TRAINING, AND WORKSHOPS

- ◆ HEC-RAS Computer Workshop for Unsteady Flow Applications
- ◆ Flood Fight Methods, California Department of Water Resources
- ◆ Intermediate GIS Programming (Python, VBA), American River College
- ◆ Database Programming (Oracle), American River College
- ◆ ESRI Authorized Instructor – Introduction to ArcView GIS ver. 3.2
- ◆ Advanced ArcObjects Component Development I (ESRI)
- ◆ Programming ArcInfo with Visual Basic for Applications (ESRI)
- ◆ Creating and Managing Geodatabases using ArcInfo (ESRI)
- ◆ Professional AutoCAD Certificate, Humber College, Toronto, Canada
- ◆ Trimble Pro XR GPS Training, COGS, Nova Scotia, Canada