

Mark James Frise

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www.caddproductivity.com

(416) 732-9415

Bio in brief:

- **Administrator:** Management experience in engineering and manufacturing environments, including CADD standards development, automation and support for hardware and software.
- **Data Analyst:** Designed and developed custom query and reporting interfaces.
- **Developer:** Developed custom software solutions for a variety of industries, specializing in creating software to communicate between Autodesk, Adobe, ESRI and Microsoft applications.
- **Draftsman and designer:** Architectural, Civil, Environmental and Geotechnical.
- **Instructor:** Access, AutoCAD, Civil 3D, VBA and Visual Basic.

Work experience:

CADD Productivity - Computer Aided Drafting & Design Services - '99 to present:

Self-employed providing services to clients in the civil, environmental, geotechnical and manufacturing industries. Services include support (hardware and software), instruction, drafting & design, programming and database design. Experience includes:

- Architecture
- Civil and Geotechnical Engineering
- Commercial & golf course irrigation systems
- Geographic Information Systems
- Manufacturing (CNC)
- Network diagrams and tracing

Examples of recent work:

Software for golf and commercial irrigation design which automates the processes of GPS data translation, design & revisions, plotting and as-built documentation. Key to the program's success is the pipe tracing algorithm which records the relationships of pumps, valves, pipes and sprinkler heads to a relational database (used by the course Superintendent manage water). SQL is employed for quick load calculations, color coding, and bills of material. Designed for use with Autodesk, ESRI, Microsoft, Rainbird, Toro and Trimble products; PGA courses and property management groups in the states of Hawaii, California, Nevada and Arizona use maps, documents and databases processed with CADD Productivity software.

Software for geotechnical engineering which creates sections given design parameters: The software streamlines the process of designing multiple shoring sections by automatically illustrating each in AutoCAD. Database driven, and taking in to account height, load, material, pile size, tie-back and foundation specifications; the resultant section drawings are complete with layers, notation, dimensions, hatching, blocks and symbols.

Software for the Ontario Realty Corporation: Redesigned ORC's CAD Standards software to facilitate the checking and documentation of contractor submitted drawings. Linking to AutoCAD and MS Access, the software's configurable interface generates detailed reports and manages over six hundred thousand possible layer combinations (similar to the 'National CAD Standard' in the USA).

Drafting for Xpanda Security Products: Created plans, elevations and sections for the installation of unique folding security gates in to an existing retail storefront.

Instruction for AutoCAD and Civil 3D including customization, styles, standards, VBA automation and best practices.

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Work experience:

Lovat Inc. - Manufacturer of Tunnel Boring Machines - '99/00

As CADD Administrator, provided support and training for forty engineers and designers. Managed the TBM parts database throughout the development of a CAD/CAM/database integrated solution. The project delivered an enterprise wide database, linking materials, templates, and drawings for inventory, engineering and CNC data. Gained further IT experience assisting the Network Administrator with Novell, NT and Groupwise network issues. Hardware support for desktops, digitizers and plotters was part of the daily work detail. Also, designed and supervised the Lovat Engineering office renovation.

SNC♦Lavalin - Civil, Geotechnical, Mining & Environmental Engineers - '93 to '99

As chief draftsman for SNC's Geocon division, produced various engineering drawings using AutoCAD and Softdesk products. Office work involved the design and development of above and below ground mine waste management, closure and remediation projects. Set standards for the presentation and organization of drawing and data files. Trained junior draftspersons and provided support to the Geocon office, in cooperation with SNC IT, solving software and hardware issues.

Field work: Represented Barrick Gold at the Lac Properties Rehabilitation Project in Geraldton Ontario. Throughout the construction of an earthworks cap on an abandoned processing facility and tailings area, responsibilities included the identification of borrow areas, coordination of contractors, preparation & testing of engineered earthworks (gradation and pH), inspection of work and as-built data collection.

Field work: Represented Noranda at the GECO Tailings Regrading and Rehabilitation Project in Manitowadge Ontario. Duties included inspection of work and materials, testing of material gradation & compaction, and the production of as-built drawings.

Field work: Represented Noranda while working with various contractors throughout the construction of two earthworks tailings dams at Heath Steele Mine in Miramichi, New Brunswick. Duties included inspection of work and materials, concrete testing, soils testing, nuclear density testing, field books, and as-built data communication with surveyors and engineers.

RN Design - Architectural Design Firm - '92/93

Responsibilities included the drafting of residential designs for developers, new designs and the acquisition of approvals from municipalities for zoning, services and streetscapes. With this small firm other appointments ranged from the production of working drawings to the coordination of printers and couriers.

East York Board of Education - Adult night school branch - '91/92

Taught AutoCAD at the board's Adult Learning Centre. Having developed the course outline, provided group and individual instruction, from the basics of drawing with AutoCAD to 3D objects and coordinate systems.

Centennial College - School of Architectural Technology – '91 to '93

Tutored AutoCAD, Structural Mechanics and Computer Sciences throughout a three year co-op Architectural Technologist education.

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Education

Centennial College 1993
Architectural Technologist

Software experience:

Adobe

- Acrobat Professional

Autodesk

- AutoCAD (v.10 to 2008)
- Civil 3D
- Map 3D
- Land Desktop

Bentley

- Microstation

ESRI

- ArcInfo, ArcPad, ArcView
- MAP Objects

Macromedia

- Dreamweaver
- Flash
- Fireworks

Microsoft

- Office Professional
- Visio
- Visual Studio
- Vista, XP, W2K, NT, DOS

Rainbird

- Cirrus, Nimbus

Symantec

- PC Anywhere

Programming experience:

DOS

Java script

SQL

Visual LISP

Visual Basic 6.0 & VBA

- Access & dBase
- Adobe Acrobat
- AutoCAD (v.10 to 2008)
- Autodesk Civil 3D, MAP 3D
- ESRI MAP Objects
- Excel, Word & Visio
- XML and other data collections

17 years experience:

CADD Productivity

Lovat Tunnel

SNC♦Lavalin

Geocon

RN Design

East York Board of Ed.

Supported clients (brief)

AMEC

- Falconbridge
- Agra Earth & Environmental

Cunha Irrigation

- Pebble Beach Golf Links
- Spyglass Hill Golf Course
- The Olympic Club

Geocon

- Noranda Inc.
- Geocon Engineering staff

Isherwood Associates

- Isherwood Engineering staff

I.T. Solutions

- Telus

Lovat Inc.

- Toronto Transit Commission
- Lovat mechanical Engineering staff

National Tree and Garden

- Oak Creek Golf Club

Russ Mitchell & Associates

- Coyote Moon Golf Club
- Santa Lucia Golf Links
- RMA Engineering staff

SNC♦Lavalin

- Barrick Gold Corporation
- Diavik Diamond Mines
- Falconbridge Ltd.
- Hemlo Golden Giant Mine
- Ministry of the Environment

Xpanda Security

- Grupo Elektra, Mexico