

Karel Brown

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PROFESSIONAL PROFILE

A highly motivated and reliable Mechanical, Electrical, Piping, BIM & Instrumentation Technologist / Illustrator with vast experience in the manufacturing and construction industry. Close attention to detail including the use of GD&T, precision driven with excellent communication skills and proven success interfacing with both customers and co-workers. Technically skilled with the following software:

- **Autodesk Inventor** v5 through v2026
- **Autodesk AutoCAD** v2.1 through v2026
- **Autodesk Revit & Autodesk Vault.**
- **Microsurvey InCAD** 2015
- **Unigraphics IDEAS** v12, **Unigraphics NX** v6.0
- **MS Office Professional Suite**
- **Bluebeam Revu** 2021
- **Adobe Acrobat Professional, Illustrator & Distiller**
- **Corel DRAW, Designer & Photo-Paint**

PROFESSIONAL EXPERIENCE

Innovative Access - Gloucester, ON (2024-2025)

Department: Mechanical / Electrical Engineering

Position: Project Manager, **M&E Technologist**

Software: Autodesk AutoCAD & Autodesk Inventor

Accomplishments:

Design and setup M&E Drawing packages. Design work includes but is not limited to Mechanical Design. Roof Top Anchor, Bosun chair and Swing Stage setup & replacement. In addition, 2-4 year check-up for all devices

LRL Associates Ltd - Gloucester, ON (2020-2024)

Department: Mechanical / Electrical Engineering

Position: **M&E Technologist**

Software: Autodesk AutoCAD & Autodesk Inventor

Accomplishments:

- Design and setup M&E Drawing packages. Design work includes but is not limited to Lighting, Emergency Lighting, Power and Fire Alarm Systems (Knowledge of NFPA (National Fire Protection Association) standards.
- Generator replacement projects and Utility Plans. Good working knowledge of the (OESC) Ontario Electrical Safety Code and (OBC) Ontario Building Code. Load calculations. Liaising with clients and other consultants. On-Site Inspections to examine substantial completion and completion of Projects and other construction administrative requirements. (BCA) Building Condition Assessments to ensure the replacement value of various components throughout the premises etc. Coordination with other disciplines such as Mechanical, Architectural, Civil, Structural and Environmental to ensure the entirety of the Electrical / Mechanical entailed work.

ARC & SPARK ELECTRIC - Navan, ON (2018-2020)

Department: Technical Documentation

Position: **CAD Manager**

Software: Autodesk AutoCAD & Autodesk Inventor

Accomplishments:

- Update and maintain 2D & 3D CAD documents. Create, modify and maintain a daily Database to control Tickets raised by incoming and outgoing issues, on and off-site. Responsible for the control of Job Close-Out-Documentation which include Panel Legends, Fire Standard and Seismic Reports.
- Create and Control Seismic Documentation, including Prototype seismically approved structures to support various heavy electrical equipment.

ANNIS O'SULLIVAN VOLLEBEKK LTD - Embrun & Nepean, ON (2014-2017)

Department: Information Technology

Position: **IT MANAGER / PROGRAMMER / DRAFTSMAN**

Software: Autodesk AutoCAD

Accomplishments:

- Update and maintain the server and software within both the Nepean and Embrun offices. Research and purchase desktop stations, laptops and peripherals as required. Maintain, program and trouble shoot any CAD related issues. Create, modify and maintain a daily database to control the Field Crew Schedule. Assist with any necessary drafting.

SONOVISION CANADA - Ottawa, ON (2013-2014)

Department: Illustration

Position: **TECHNICAL ILLUSTRATOR**

Software: Autodesk AutoCAD & Autodesk Inventor

Accomplishments:

- Worked closely with technical writers to prepare illustrations for various commercial and military aircraft.

CARLETON UNIVERSITY - Ottawa, ON (2011-2013)

Department: Physics

Position: **MECHANICAL DESIGNER**

Software: Autodesk AutoCAD & Autodesk Inventor

Accomplishments:

- Worked closely with physicists and engineers to design and manufacture a: prototype muon tomography system (CRIPT).
- Worked closely with physicists and engineers to design and manufacture a: Dark Matter Experiment with Argon Pulse shape discrimination (DEAP).

GENERAL DYNAMICS CANADA - Bells Corners, ON (2007-2010)

Department: Electrical Specialty Engineering

Position: **ELECTRICAL DESIGNER**

Software: Unigraphics IDEAS

Software: Autodesk AutoCAD & Autodesk Inventor

Accomplishments:

- Developed a live metrics spreadsheet to control: Documentation flow, PDC incorporation, Checking, Project sign-off and Configuration Management status within the Electrical Specialty Engineering Department to reduce and eventually eliminate time spent searching through an on-line Flow Control repository.

- Liaison between Mechanical Engineering, Electrical Specialty Engineering and the Methods Planning group. Working and experience in all three departments allowed for immediate control of problem solving.

ANDRITZ FIBER DRYING LIMITED - Lachine, QC (2006-2007)

Industry: Pulp & Paper

Position: **MECHANICAL DESIGNER**

Software: Autodesk AutoCAD & Autodesk Inventor

Accomplishments:

- Developed and maintained a Standard Parts Library by which all other team members could easily access and utilize.
- Conversion of engineering native and non-native data files into usable formats for the team to utilize.
- Mechanical inspection of the manufacturing process to ensure that the final product meets the customer's requirements and is delivered on time.

DEW ENGINEERING LTD - Ottawa, ON (2002-2006)

Industry: Defense

Positions: **MECHANICAL DESIGNER**

CAD & DOCUMENT CONTROL ADMINISTRATOR

TECHNICAL PUBLICATIONS ILLUSTRATOR

Software: Autodesk AutoCAD & Autodesk Inventor

Accomplishments:

- As Mechanical CAD & Document Control Administrator, in a period of six months, installed and customized a PDM system. The primary objective was to eliminate the flow of paper and for the engineering & Illustration departments as well as Procurement and Manufacturing when handling engineering documentation to work solely by electronic means, reducing the risk of referring to out-of-date documents.

KJB SYSTEMS DESIGN formerly KJB DESIGN- Montreal, QC (1991-Present)

Industries: Defense, Aerospace, Petrochemical, Chemical, Pharmaceutical, Instrumentation, Refrigeration, Environmental, Pulp & Paper, Dairy, Wine and Brewery

Position: **TECHNICAL DESIGN CONSULTANT**

Software: Autodesk AutoCAD & Autodesk Inventor

Accomplishments:

- Built a small business company from the ground up that created a database of over 30 customers, many of whom are repeat customers after 25 years in business.
- CAD Designer and Technical Illustrator

SECURITY CLEARANCE CERTIFICATES & SAFETY REGULATIONS:

ITAR (International Traffic in Arms Regulation)

CGRP (Controlled Goods Registration Program)

PWGSC (Public Works & Government Services Canada) Security Level II

WHMIS (Workplace Hazardous Materials Information System)

EDUCATION

VANIER COLLEGE Mechanical Design (Diploma 1985)
AutoCAD & Advanced AutoCAD

McGill UNIVERSITY Industrial Process Control & Automation (Certificate 1993)

Computer Aided Design (CAD) Instructor for “Industrial Process Control & Automation” (1993, 1994, 1995, 1996, 1997).