

# **Julian Nedohin-Macek, P.Eng.**

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7 Celtic Bay  
Winnipeg, Manitoba, R3T 2W8  
Cell: (204) 770-8031  
julian@nedohin-macek.com

## **Notable Skills and Training:**

- Review of customer specifications for power transformers for quotation, design, implementation, and quality assurance of control systems
- Electrical system drafting, commissioning, documentation, acceptance testing, troubleshooting, and repair.
- AutoCAD, LAN/PLC networking, Matlab 5, Canadian Electrical Code 2006.
- PLC and HMI programming using for Modicon 984 and Allen-Bradley SLC and ControlLogix.

## **Education:**

May 2003

**Bachelor of Science in Electrical Engineering**

*University of Manitoba - Winnipeg, Manitoba*

## **Work Experience:**

January 2009 to Present

**Controls Designer**

*Pauwels Canada Inc. - Winnipeg, Manitoba*

- Quotation of large power transformer control systems, bushings, and CT estimates for end user customers and consultants.
- Bill of Materials creation and maintenance specific to projects using SAP.
- Troubleshooting control device issues including variable frequency drives.
- Design of control system schematics and wiring diagrams per customer specification.
- Communicating control department requirements to mechanical designers, contract administrators, shop staff, suppliers, and vendors.
- Creation of control cabinet specifications, requests for quote, managing supplier concerns and changes to control cabinets with various suppliers.
- Quality assurance inspection of control cabinet fabrication and wiring against customer specifications at Pauwels and at vendor sites.

December 2004 to January 2009

**Project Engineer**

*Standard Aero Ltd.* - Winnipeg, Manitoba

- Provided engineering and repair support for Gas Turbine Engine test cells in a multi-discipline engineering team environment at home and abroad.
- Design, programming, and implementation of PLC-based engine monitoring and control systems including HMIs and networking connections to corporate LAN and private LANs.
- Repaired power control printed circuit boards for production line plasma robot without documentation.
- Designed, installed, and commissioned instrumentation systems including thermal, vibration, pressure, and fluid flow.
- Extensive teamwork experience in coordinating and leading peers of various technical disciplines on projects and support issues as well as participating as a member of engineering teams led by peers.
- Created budgets, timelines, terms of references, and acceptance test procedures for projects.
- Created documentation and drawings for new and existing test cell instrumentation systems and reports of technical issues including solutions.
- Simulation of signals for the purposes of testing system response.
- Ability to work with difficult individuals and under time and resource constraints to complete tasks.

May 2003 to July 2004

**Control Specialist / Programmer**

*Pursuit Industrial Solutions* - Winnipeg, Manitoba

- Troubleshooting of PLC based industrial control systems in a variety of industrial environments.
- Data acquisition, and analysis of client processes using Allen-Bradley PLCs and Microsoft Excel spreadsheets both local and remote for power consumption reconciliation and billing.
- Design and drafting of wiring diagrams using Promis-e and AutoCAD 2002.
- Created bills of materials, specifications, and parts lists for projects designed, built and commissioned on client's site.
- Object oriented programming as part of a team for a custom n-tier structured Time and Attendance software application.
- Utilized a 3rd party ActiveX control to establish and control communications to a hardware card scanning device via TCP.
- Created and implemented decision code to establish a robust data collection interface to a hardware device operating system.

October 2002 to May 2003

**Electrical Draftsperson**

*Nova 3 Consulting Engineers - Winnipeg, Manitoba*

- Part time position during school in Electrical Engineering department drafting in AutoCAD 2002.
- Prepared electrical service panel and lighting drawings for commercial and industrial buildings.

May 2002 to August 2002

**Engineering Aid 1**

*Manitoba Hydro - Gillam, Manitoba*

- Responsible for researching several maintenance engineering projects progressing simultaneously in a team environment.
- Prepared engineering reports and capital project justification reports to indicate best economical engineering solution for a technical issue.
- Prepared memorandums and weekly progress reports for Electrical Section meetings.
- Consulted with other team members on all projects to ensure quality work and to advance professional knowledge.
- Worked in an office setting with Professional Engineers and Technicians as well as in the field with plant workers.

**Other Work Experience:**

May 2001 to September 2001

**Database Programmer (Access, Visual Basic)**

*MacDon Industries - Winnipeg, Manitoba*

January 1998 - September 1999

**Technical Support Associate**

*Convergys Corporation - Winnipeg, Manitoba*

January 1998 - June 1998

**Visual Basic Teacher**

*Computers for Kids - Winnipeg, Manitoba*

**Voluntary Activities, Memberships, and Particulars:**

- Registered P. Eng. with the A.P.E.G.M.
- IEEE - Winnipeg Section member.
- Citizen of Canada and the Czech Republic.
- IEEE Winnipeg Section Secretary, 2006 to Present.
- APEGM Registration Committee Member, 2008 to Present.
- Manitoba Cycling Association, Vice President of Recreation and Transportation, 2001 to 2005.