

Julian Nedohin-Macek, P.Eng.

7 Celtic Bay
Winnipeg, Manitoba, R3T 2W8
Home: (204) 943 8508
julian@nedohin-macek.com

Notable Skills and Training:

- PLC programming using ProWorx for Modicon 984 and RSNetworkx 500/5000 for Allen-Bradley SLC and ControlLogix.
- HMI programming using FactoryTalk View Studio (A-B) and Vijeo 4.6 (Telemecanique Magellis touchscreens).
- Windows 9x, XP, Microsoft Office, some SQL.
- Printed Circuit Board troubleshooting and electronic device layout, part specification, assembly and testing.
- Matlab 5, AutoCAD, RSWire, Promis-e.
- Canadian Electrical Code 2006

Work Experience:

December 2004 to Present – 3.25 years

Project Specialist

Standard Aero Ltd. - Winnipeg, Manitoba

- Provided engineering support for Gas Turbine Engine test cells in a multi-discipline engineering team environment.
- Commissioning of commercial and military equipment with clearances to work with U.S. Military equipment.
- Design, programming, and implementation of PLC engine monitoring and control systems including HMIs.
- Repaired proprietary PCBs for production line plasma robot without documentation and created prototype electrical test devices from concept through commissioning and ongoing support.
- Designed, installed, and commissioned instrumentation systems including thermal, vibration, pressure, and 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 – 1 year

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.
- 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's operating system.

October 2002 to May 2003 – 0.5 year

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 – 0.25 year

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 – 0.25

Database Programmer (Access, Visual Basic)

MacDon Industries - Winnipeg, Manitoba

January 1998 - September 1999 – 1.75 years

Technical Support Associate

Convergys Corporation - Winnipeg, Manitoba

January 1998 - June 1998 – 0.5 year

Visual Basic Teacher

Computers for Kids - Winnipeg, Manitoba

Education:

May 2003

Bachelor of Science in Electrical Engineering

University of Manitoba - Winnipeg, Manitoba

- Control Systems (Analog and Digital).
- Power System Analysis.
- Microprocessor Programming and Interfacing.

Voluntary Activities, Memberships, and Particulars:

- Registered P. Eng. with the A.P.E.G.M.
- IEEE - Winnipeg Section and G.O.L.D. member.
- Citizen of Canada and the Czech Republic.
- IEEE Winnipeg Section Secretary, 2006 to Present.
- APEGM AGM Committee Member, 2003 to 2006.
IEEE G.O.L.D. committee member, 2003 to 2006 and webmaster (2005).
- Vice President of Recreation and Transportation, Manitoba Cycling Association, 2001 to 2005.