Ngoc Pham

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EXPERIENCE

MANITOBA HYDRO (MH) | Engineering Student
May 2021 – Present | Winnipeg, MB

- Developed database application and user interface, automated the engineering processes to collect data of 200+ power stations.
- Collaborated with teams to create and maintain database connection and architecture.
- Programmed database procedures and technical documentation for Station Peak Load Forecast project.
- Developed user interface to automate contingency file generation in Python.
- Simulated contingency scenarios and documented analysis results for delayed clearing studies.
- Developed user interface to systematically allocate zonal data to power buses and loads in Power System Simulator (PSS/E).

LAKESIDE PROCESS CONTROLS | Project Engineering
Oct 2016 – Sep 2019 | Winnipeg, MB

- Built and configured 70+ DeltaV workstations and servers including virtual environment (Hyper-V, VMware).
- Performed annual Preventative Maintenance, hardware flash upgrades, system updates, hotfixes, Symantec/McAfee virus definitions.
- Supervised electricians for hardware installation.
- Conducted product start-up, Distributed Control System (DCS) commissioning, integration, and migration.
- Interfaced complex industrial automation systems to third-party products via Modbus TCP/IP protocol.
- Troubleshot, verified software configuration for automation systems and documented loop test results.
- Designed documentation and conducted Software Factory Acceptance Test.
- Diagnosed, calibrated, and certified instruments including Rosemount/Micro Motion products at various industrial plants.

TOLKO INDUSTRIES | Instrumentation Technologist
Jan 2016 – Oct 2016 | The Pas, MB

- Updated and maintained complex industrial automation systems.
- Designed, inspected, and supervised instruments' installation and commissioning.

TOLKO INDUSTRIES | Instrumentation Student
May 2015 – Aug 2015 | The Pas, MB

- Designed and verified detailed drawings of instrument installation projects.
- Performed calibration, loop-check, and routine maintenance services for instruments.

HOBBIES

Embedded systems, software development, and computer science (github.com/ngocpham1994x)

EDUCATION

UNIVERSITY OF MANITOBA
B.Sc. in Computer Engineering
Expected Graduation: May 2023 | Winnipeg, MB
Dean's Honor List
GPA: 4.1 / 4.5

RED RIVER COLLEGE (RRC)
Diploma in Instrumentation Engineering Technology
Dec 2015 | Winnipeg, MB
Honor Graduate
GPA: 4.4 / 4.5

SKILLS

INDUSTRIAL AUTOMATION
DCS • Programmable Logic Controller • Instrumentation • Computer Installation

PROGRAMMING
Python • C/C++ • Java • MATLAB • HTML/CSS/Javascript • SQL • DAX

WINDOWS AND MICROSOFT
Server 2008/2012/2016 • Windows 7/10 • MS Office • Power BI

SOFTWARE TOOLS
Git • IntelliJ • VSCode • PSS/E • VSAT/PSAT • AutoCAD

CERTIFICATES

2020 Responsive Web Design
2019 Certified Inst. Technician
2019 DeltaV Virtualization, Hardware
2018 Mimic I, II
2017 DeltaV Implementation, Admin
2017 Rosemount/Micro Motion Service

AWARDS

2022 MH Women's Engineering Bursary
2021 Price Scholarships in Engineering
2019-2022 Dean's Honor List
2015 Honor Graduate
2015 RRC Academic excellence and Leadership qualities

SOCIETIES

Student Member | APEGM
Industrial Associate | CTTAM
Member | WICS U. of Manitoba