

NGOC PHAM

9306 Mineral Rock Lane, Richmond, TX 77407 · 204-887-0956 · ngoc.pham.nm@gmail.com
www.linkedin.com/in/ngocpham1994 · www.github.com/ngocpham1994x

WORK EXPERIENCE

ENGINEERING STUDENT

MAY 2021 – PRESENT

MANITOBA HYDRO

- Developed database application and user interface, automated processes to collect data of 200+ power stations.
- Programmed database procedures to forecast power loads.
- Developed user interface using Python to automatically generate contingency files and simulate contingency scenarios.
- Documented contingency analysis results for delayed clearing studies.

PROJECT ENGINEERING

OCT 2016 – SEP 2019

LAKESIDE PROCESS CONTROLS LIMITED

- Built and configured 70+ DeltaV workstations and servers, including virtual environment (Hyper-V, VMware).
- Performed annual Product Preventative Maintenance, hardware flash-upgrades, system updates and hotfixes, Symantec and McAfee virus definitions updates.
- Conducted product start-up, commissioning, integration, and virtualization migration.
- Interfaced complex industrial automation systems to third-party products via Modbus TCP/IP protocol.
- Troubleshoot, verified software configuration for automation system and documented results of IO tests and loop tests.
- Designed documentation and conducted Software Factory Acceptance Test.
- Supervised electricians for hardware installation.

INSTRUMENTATION ENGINEERING TECHNOLOGIST

JAN 2016 – OCT 2016

TOLKO INDUSTRIES LIMITED

- Updated, maintained and backed-up automation systems and servers during shutdown.
- Designed instruments' installation, inspected and supervised instrument commissioning.

INSTRUMENTATION ENGINEERING STUDENT

MAY 2015 – AUG 2015

TOLKO INDUSTRIES LIMITED

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

EDUCATION

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

SEP 2019 – PRESENT

UNIVERSITY OF MANITOBA

Dean's Honor List, GPA: 4.1/4.5. Expected Graduation: May 2023

INSTRUMENTATION ENGINEERING TECHNOLOGY

SEP 2013 – DEC 2015

RED RIVER COLLEGE

Honor Graduate, GPA: 4.39/4.5

SKILLS

Computer Skills	Windows:	Server 2008/2012/2016, Windows 7/10
	Languages:	Java, Python, HTML, CSS, Verilog, SQL, DAX, C/C++
	Software:	Power System Simulator for Engineering (PSS/E), Voltage Security/Powerflow Assessment Tool (VSAT/PSAT), Git, MATLAB, AutoCAD, MS Office, MS Power BI
	IDEs:	IntelliJ, VSCode, Spyder, Quartus Prime
	Hardware:	Programmable Logic Controller, Distributed Controlled System, computer installation, electronic circuits
Languages	Fluent in English, Vietnamese	

CERTIFICATES

Responsive Web Design freecodecamp.org	MAY 2020
Certified Instrumentation Technician Interprovincial Standard (Red seal)	SEP 2019
DeltaV Virtualization, DeltaV Hardware Emerson Automation Solutions	MAY 2019
Mimic I, Mimic II Emerson Automation Solutions	AUG 2018
DeltaV Implementation I, DeltaV Administration Emerson Automation Solutions	MAR 2017
Micro Motion/Rosemount Service Training Emerson Automation Solutions	AUG 2017

AWARDS

Women's Engineering Bursary Manitoba Hydro	JAN 2022
Price Scholarships in Engineering Price Faculty of Engineering, University of Manitoba	NOV 2021
Engineering Class of 1946 Scholarships Price Faculty of Engineering, University of Manitoba	APR 2021
Dean's Honor List Price Faculty of Engineering, University of Manitoba	DEC 2019 – DEC 2021
Academic excellence and Leadership qualities Award Red River College	DEC 2015
Students' Association Scholarship Red River College	DEC 2013

MEMBERSHIPS

Student Member Engineers Geoscientists Manitoba (APEGM)	SEP 2019 – PRESENT
Industrial Associate Certified Technologists and Technicians Association of Manitoba	MAY 2016 – PRESENT

INTERESTS & PERSONAL PROJECTS

- Coding and software development
- www.github.com/ngocpham1994x
 - www.codepen.io/ngocpham1994x