Ba-Vu TRAN

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EDUCATION

Bachelor of Engineering *In progress*

Lakehead University, Thunderbay, ON

Advanced Diploma in Electrical Engineering Technology – Control Systems *2017 - 2020*

Humber College, Toronto, ON - Honors, CGPA 97.9/100

Training Program of Excellent Engineers in Vietnam (PFIEV) *2015 - 2017*

Ho Chi Minh City University of Technology, Vietnam

SKILLS

I specialize in **Industrial Control Systems** with the focus on:

- **Programming PLCs, HMIs using Allen-Bradley, Omron, and Siemens products.**
  - MicroLogix, CompactLogix, ControlLogix using RSLinx, RSLogix 500, RSLogix 5000.
  - PanelView, PanelView Plus using Factory Talk SE & ME.
  - Omron CJ1M, Omron's NS using CX Designer.
  - SIMATIC S7-1500, S7-1200, SIMATIC HMI Basic/Comfort Panels, SINAMICS Servo S210 using TIA Portal.
- **Prototyping industrial control board using AVR microcontrollers.**
  - Proven experience in all phases: industry research, custom design PCB using Eagle, programming, bill of material, PCB fabrication, soldering, troubleshooting/testing, and providing alternative solutions.
  - Presentations, documentation, and training manuals for industry partner.
- **Full stack web developing and programming for IoT applications.**
  - Experience in IoT applications using ESP8266 and Arduino platform.
  - Familiar with C, HTML, CSS, JavaScript, Bootstrap, jQuery, GitHub, Node.js, Express.js, APIs, SQL Databases, MongoDB, Mongoose.

TECHNICAL KNOWLEDGE

- AC/DC circuits, AC/DC motor & motor control, AutoCAD Electrical, Ontario electrical code.
- Power electronics, power generation, transmission, distribution, protection, and control.
- Sensors and actuators, industrial communications, feed-back control systems, supervisory control and data acquisition (SCADA).

EXPERIENCE

Research Assistant – Humber College, ON

Project: Microcontroller based self-contained material loader

- CA$25,000 funded by NSERC (Natural Sciences and Engineering Research Council of Canada)

- Industry Partner: Hamilton Plastics Systems, Mississauga, ON L4Z 1T5.
- The project concluded with a custom-made programmable control board using AVR microcontroller, which will be installed in a new generation of Integral Vacuum Loaders.
- Heavily involved in all phases of the project, continuously worked with a Humber Faculty and the industry partner.

Electrical Engineering Tutor 2019 - 2020

Peer Assisted Learning Support Office – Humber College

- Provided assistance to student learners in all courses in the Electrical program.
- Conducted about 250 appointments vary from 1 to 3 hours in length.

Operator April 2019 - June 2019

The AdMill Group, Etobicoke, ON

- The AdMill Group is the largest privately-owned flyer distribution company in Canada.
- Ensured machines are setup properly, working well, and producing quality product.
- Maintained machines and troubleshooted any problems occur during the shift.

CAPSTONE PROJECTS

- **Siemens Servo Drive System in Synchronous/ Asynchronous Mode**
  - System included Siemens SIMATIC S7-1500T CPU, 2 SINAMTICS S210 Servo Drives, SIMOTICS S-1FK2 Servo Motor, SIEMENS KTP700 HMI.
  - Software used: TIA Portal, Kepware, Factory Talk View Studio, Microsoft Excel.
- **Siemens Ballpen Digital Factory**
  - System included a conveyor controlled via VFD Power Flex 4, SIMATIC S7-1500 CPU, ET 200eco PN IO-Link Master, RF240R RFID Readers, SCALANCE XC208 Industrial Ethernet Switch, TP700 Comfort Series HMIs.

CERTIFICATION

Certified Tutor, Level 1 2018

College Reading & Learning Association (CRLA)

Research Assistant 2020

Applied Research and Innovation Office - Humber College

PERSONAL QUALTITIES

- Dedicated
- Hard working
- Careful
- Self-motivated
- Independent worker
- Flexible
- Technical competency
- Organized

LANGUAGES

1. English: Professional Working Proficiency
2. Vietnamese: Native Language