







# DUY (JIMMY) NGUYEN VO

 819 Dufferin Ave, Winnipeg  
 [jimmyvo2410.github.io](https://github.com/jimmyvo2410)

 +1 (204) 599 1138  
 [linkedin.com/in/jimmyvo2410](https://www.linkedin.com/in/jimmyvo2410)

 [jimmy.vo.2410@gmail.com](mailto:jimmy.vo.2410@gmail.com)  
 [github.com/jimmyvo2410](https://github.com/jimmyvo2410)

---

## SUMMARY

- An honor roll Business Information Technology (BIT) student at Red River College with many awards, scholarships and outstanding achievements
- A software engineer with an Electrical Engineering background and 1.5-year experience in a global automotive company
- An active GitHub contributor and an excellent tutor with a passion in sharing his knowledge
- A fast learner, and a supportive leader with the ability to categorize and automate software development process
- Wide knowledge in various areas such as embedded systems, mobile platforms, database, web/application development, games and graphic designs
- Proven success in achieving outcomes under pressure managing multiple projects and responding to varying needs of multidisciplinary teams simultaneously
- Strong communication skills achieved from multi-cultural workplace (Chinese and German)

---

## SKILLS

### Mobile Development

- Java, XML and UI design (Android Studio)
- Deployed the applications to Google Play
- Analyzed, designed, and developed complex code bases, software systems, including API design techniques

### Web Development and Database

- HTML, CSS, JavaScript, PHP
- React, ThreeJS
- Web services and HTTP protocol
- Service worker, Web application
- XML, JSON, Oracle SQL, PhpMyAdmin, XAMPP
- Internet Security: SQL Injection, Cross Site Scripting

### Application Development

- C#, VBA, XML and UI design
- .NET application development (Visio Studio)
- Experience implementing modular, testable, and robust solutions

### Game Development

- Hands on experience with C# script in Unity
- 3D objects and common components such as physics and animations
- Deployed an VR game to Google Play

### Data Science

- Kalman filter (KF, EKF), Gradient descent
- Computer vision (OpenCV)
- Data encryption, signal modulation (RF)

### Embedded Automotive

- Model base, manual code, code generation for all standard tools
- Module test, integration test, regression test
- CANoe, IAR, CppUTest, Tessy, Rhapsody, IBM DOORS
- Software Components: UDS Diagnostics, Active/passive Entry, UDS Diagnostics, RF receiver stack, NFC stack
- Basic Software: Diag Stack (DEH, IsoTP); System Stack (SysStateM, BleM, ucDrv, Gpt); Memory Stack (NvM); Io Stack (AdcDrv, DioDrv, SpiDrv, TauDrv)

### Embedded System

- Control/Sensors: ultrasonic, EPPROM, DMA, gyroscope, accelerate-meter, magneto-meter, RF receivers, NFC, capacity touch sensor
- Protocol: UART, SPI, I2C, GPIO, SDIO, CAN, LIN

### Embedded Software

- C/C++ and assembly (Keil, IAR)
- MATLAB m-script, model base and C-file generation for embedded applications
- Experienced in independently designing, developing and testing of software module level API's
- Developed configuration tools for different variants of an embedded platform

### Embedded Hardware

- Designed 2-layer PCB layout and schematic
- Proficiency in the use of soldering and measurement equipment such as oscilloscopes and logic analyzer

---

## WORKS AND RELATED EXPERIENCES

---

### Peer Tutor

January 2018 - Currently

*Red River College, Winnipeg, MB, Canada*

- Assisted students with programming skills (Web Development 1, Programming 2)
- Identified and filled out the students' learning needs by reasoning and visualization

### Technology Camps Instructor (3 days)

May 2018

*Red River College, Winnipeg, MB, Canada*

- Explained the technologies used in Web Development, Database. Networking and Web Security
- Led the discussion about ethical hacking
- Instructed the children to build up a simple website with database, and enhance the web security

### Embedded Software Engineer

May 2016 – July 2017

*HELLA, Ho Chi Minh city, Vietnam*

- Offered a promotion and invited by Chinese engineers to be a team leader on Radio Frequency Receiver technology
- Performed software design, maintenance, bugs fix in 4 projects at the same time
- Completed one of Chinese customer projects from the first phase to the Start-Of-Production (SOP)
- Supported a German system engineer to debug remotely on the first demonstration of NFC in Germany

### Embedded Developer

January 2014 – July 2014

*VSKYLINE, Ho Chi Minh city, Vietnam*

- Researched and developed embedded solutions in unmanned aerial vehicle (UAV) system
- Designed hardware schematics and layouts; soldered printed circuit boards
- Developed embedded software for UAV modules
- Performed system integration and testing on flying prototypes

### Assistant Embedded Developer

July 2013 – February 2014

*ROBOTECH, Ho Chi Minh city, Vietnam*

- Developed embedded solutions for Radar trucks in the military industry
- Assisted the team on improving the performance of estimation algorithms

---

## EDUCATION

---

### Business Information Technology Diploma

August 2017 - Current

*Red River College, Winnipeg, MB, Canada*

Application Development, Database management, Web Development, Web Security, Technology in Business

### Bachelor of Engineering

August 2010 - March 2014

*HCM University Of Technology, Ho Chi Minh city, Vietnam*

Electrical - Electrical Engineering, Electronics - Telecommunication, Embedded System Software and Hardware

---

## AWARDS AND HONOURS

---

### Applied Computer Education Department Award

June 7, 2018

*Applied Computer Education Department, Red River College*

### Great-West Life Award

June 7, 2018

*Great-West Life*

### School of Business and Applied Arts Bursary

February 16, 2018

*Red River College*

### Honor Roll Certificate - First Term

December 15, 2018

*Applied Computer Education Department, Red River College*

---

## VOLUNTEER ACTIVITIES

---

### Education Assistant

March 2018 - Current

*Red River College, Winnipeg, MB, Canada*

Assisting the instructor in the course Network Computing 1

- Indicated the issues, helped students with troubleshooting and explained network behaviors
- Helped students with Cisco Lab exercises in Open Lab periods

### Sessions helper

June 2018

*Prairie Developer Conference, Winnipeg, MB, Canada*

A 2-day event provided a high-quality professional development opportunity locally, without the high costs of travel and accommodation typically associated with remote conferences

- Answered questions at the welcome booth
- Ensured the machines worked properly during the presentations

### Guest Speaker

May 2018

*The Campus tour, Red River College, Winnipeg, MB, Canada*

A day tour where international and ESL students come to see the college's facilities and the college lives.

- Invited to come and discuss about the courses and the difficulties of international students at RRC
- Gave advise to ESL students about what they could do to prepare for the courses

### Session Helper

April 2018

*DigiGirlz Day 2018, Microsoft, Winnipeg, MB, Canada*

A great event hosted by Microsoft that RRC have had the fun and privilege to assist with for several years.

- Robot Cars: Working with Adafruit Circuit Playground and some common household items, get an introduction to programming and electronics.
- Cognitive Thinking: Assist students through a series on non-technical activities to illustrate how they use critical and creative thinking.

### Project Team Leader

January 2018 – February 2018

*Canadian Inventory Project, ACE Project Space, Red River College*

An Android project sponsored by RRC to improve an inventory system in Canadian stores

- Led the team on the software architecture and kept the software clean and maintainable
- Trained the team members on Android development and new technologies

### Workshop Assistant

March 2018 - April 2018

*Unity Workshops, New Media Manitoba*

Series of workshops held by Dylan Fries biweekly to introduce Unity developers' skill sets

- Set up training materials

### Student Representative, Activity Facilitator

February 2018

*RRC Open house 2018, Red River College*

An event held by RRC to provide RRC's program tour

- Prepared LEGO Mindstorms demonstration
- Represented RRC's students to answer CTV interview questions about LEGO Mindstorms
- Led the Coding-And-Networks-Games room, introducing high school students to basic concepts of programming

### Note Taker

February 2018

*DisruptED 2018, Red River College*

An event sponsored by leading institutes (University of Manitoba, RRC) and the giants in the industry (DELL, INTEL, CISCO, IBM), to explore the future of work.

- Hosted an unconference on how to bridge the digital divides
- Took notes in the unconference and reported to the event coordinator