

# DUY NGUYEN VO (JIMMY)

819 Dufferin Ave, Winnipeg • +1 (204) 599 1138

[jimmy.vo.2410@gmail.com](mailto:jimmy.vo.2410@gmail.com) • [www.linkedin.com/in/jimmy-vo-74b543119/](http://www.linkedin.com/in/jimmy-vo-74b543119/)

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## HIGHLIGHTS OF QUALIFICATIONS

- A Red River College(RRC) student with all As (GPA: 4.23)
- A flexible, hard-working, fast learner, and a supportive leader
- Wide knowledge in various areas such as embedded systems, mobile platforms, database, web and application development with one-year experience as a software engineer in a global company
- Strong analytical, problem solving, decision making, organizational, time management and multi-tasking skills under high pressure (4 projects at the same time)
- Strong interpersonal and communication skills achieved from multi-cultural environments (Vietnamese, Chinese and German)

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## TECHNICAL 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 & Database

- HTML, CSS, Java script, PHP
- Web services and HTTP protocol
- XML, JSON, Oracle SQL, PhpMyAdmin
- Internet Security: SQL Injection, Cross Site Scripting

### Application Development

- C#, VBA, XML and UI design
- .NET application development (Visio Studio)
- Unit test
- 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

### Financial Accounting

- Understand business activities and financial accounting principles
- Hands on experience with Sage50

### Embedded Automotive

- Model base, manual code, code generation for all standard tools
- Module test, integration test, regression test
- CANoe, IAR, CppUTest, Tessa, 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)

### Data Science

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

### 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

### Embedded Hardware

- Designed 2-layer PCB layout and schematic
- Proficiency in the use of soldering and measurement equipments

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## EDUCATION

### **Business Information Technology Diploma**

*Red River College, Winnipeg, Manitoba, Canada*

Currently

### **Electrical – Electronics Engineering Degree**

*Ho Chi Minh City University of Technology, Vietnam*

April 2016

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## WORK AND RELATED EXPERIENCE

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### Peer Tutor

January 2018 - Currently

*Red River College, Winnipeg, Manitoba, Canada*

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

### Instructor

May 2018

*Technology Camps, 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 create a simple website with database integrated and to enhance the security

### Embedded Software Engineer

May 2016 – July 2017

*Hella Vietnam, Ho Chi Minh city, Vietnam*

- Offered a promotion and invited by Chinese engineers to be a team leader on Radio Frequency Receiver technology
- Discussed with Chinese system engineers on the intermediate sleep/wakeup error that happened on some defective cars; convinced them to deal with the customer to accept my temporary solution to a bad hardware design existing from the first phase
- Supported a German system engineer to debug remotely on the NFC prototype
- Guided my team members remotely on the first demonstration of NFC in Germany

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## VOLUNTEER ACTIVITIES

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### Education Assistant

March 2018 - Current

*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

### Canadian Inventory Project

January 2018 – February 2018

*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
- Built a two-way peer review process
- Trained the team members on Android development and new technologies

### Unity Workshops

March 2018 - April 2018

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

- Set up training materials
- Explored digital media world and many pieces of Unity

### RRC Open house 2018

February 2018

*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

### DisruptED 2018

February 2018

*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
- Discussed VR technology and start-up with young talents from high school in Winnipeg