



# Philippe Vo


## Computer Engineer


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### Personal Info

 [github.com](https://github.com/philippeVoNam)

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### Work Experience

#### Head of Software

July 2018 – Present

Biotech instruments company that built a system that can perform low volume, high throughput gene editing experiments at scale

- ▶ a backend system to control a hardware system to enable fluidics movements based on electricity
  - ▶ a frontend GUI application to enable users to interface with the hardware system (using APIs to talk to the backend system)
  - ▶ a database system to store data regarding the execution of runs of the hardware systems for quality control
  - ▶ a pipeline system that enables users to compile their code into a binary file that can be understood by the hardware system for fluidics movements
  - ▶ firmware that runs on the hardware system to control the electrical hardware
  - ▶ built numerous in-house applications to accelerate and facilitate my colleague's work
  - ▶ managed a team of data scientist to build a predictive model to label biological run as success/failure
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#### Research Assistant

August 2016 – August 2017

Worked in a research laboratory specialized in Digital Microfluidics (liquid handling technology)

- ▶ Built a feedback system for fluidics movement using computer vision
  - ▶ Created three software systems, a GUI (Graphical User Interface) to control a Digital Microfluidics automation system, an automatic absorbance reader (AIMS) and an image-based feedback system for Digital Microfluidics.
  - ▶ Published my research project on my image-based feedback system in the "Lab on a Chip" journal.
  - ▶ Link to my research [paper abstract](<http://pubs.rsc.org/en/content/articlelanding/2017/lc/c7lc00826k#!divAbstract>)
  - ▶ Collaborated with other lab members coming from other fields such as Biology, Electrical and Material Engineering.
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### Education

#### Computer Engineering

August 2017 – December 2020

Concordia University

Bachelor

Grade: 3.38

Notable Courses:

- ▶ DB1101 - Basic SQL
  - ▶ CS2011 - Java Introduction
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🌐 Volunteer Work

Global movement of free coding clubs for young people.

December 31, 2011 – December 31, 2012

CoderDojo

Teacher

- ▶ Awarded 'Teacher of the Month'

📁 Projects

Miss Direction

August 23, 2016

Team lead, Designer

Smoogle

A mapping engine that misguides you

- ▶ Won award at AIHacks 2016
- ▶ Built by all women team of newbie programmers
- ▶ Using modern technologies such as GoogleMaps, Chrome Extension and Javascript

GoogleMaps

Chrome Extension

Javascript

📄 Publications

Image-based feedback and analysis system for digital microfluidics

Lab on a Chip · Sep 2017

Innovative computer vision-based feedback system to optimize fluid movement on digital microfluidic chips.

🔧 Skills

Programming Languages

Python

C++

Java

C#

GDScript

CD/CI

Jenkins

Database

PostgreSQL

🗣️ Languages

English	French	Vietnamese
Native speaker	Native speaker	Upper Intermediate

🏆 Awards

<div>Employers' Choice Award</div> <div>Co-op Institute at Concordia University · Apr 2017</div> <div>Co-op awards committee reviewed all nominations from their employer contacts and I was the recipient for this award in 2017. Nominated by</div>	<div>USRA Scholarship</div> <div>Natural Sciences and Engineering Research Council of Canada · Dec 2016</div> <div>Undergraduate Student Research Award is given by the Natural Sciences and Engineering Research Council of Canada based on</div>	<div>Merit Scholarship Program in Information Sciences, Computer Engineering and Construction of Computers, and Electrical, Electronic and Communications Engineering</div>	<div>Concordia Entrance Scholarship</div> <div>Concordia University · Nov 2016</div> <div>A scholarship given to entering students at Concordia University which have been able to distinguish themselves academically</div>
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♥ Interests

Wildlife

- Ferrets
- Unicorns

👍 References

“ It is my pleasure to recommend Richard, his performance working as a consultant for Main St. Company proved that he will be a valuable addition to any company. ”  
– Erlich Bachman