

Philippe Vo

Computer Engineer

philippe.vo.nam@gmail.com
(438) 992-4440

8784 Rue Riviera
Brossard, Quebec, CA

<https://github.com/philippeVoNam> (philippeVoNam)

English (Native speaker), French (Native speaker), Vietnamese (Upper Intermediate)

Work Experience

[DropGenie](#) - Head of Software

2018-08-01

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

[Concordia University](#) - Research Assistant

2016-09-01 - 2017-09-01

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.
 - Collaborated with other lab members coming from other fields such as Biology, Electrical and Material Engineering.
-

Education

[Concordia University](#) - Computer Engineering

2017-09-01 - 2021-01-01

Score: 3.38

Awards

Co-op Institute at Concordia University - Employers' Choice Award

2017-05-01

Co-op awards committee reviewed all nominations from their employer contacts and I was the recipient for this award in 2017. Nominated by my employer Steve Shih from Concordia University

Natural Sciences and Engineering Research Council of Canada - USRA Scholarship	2017-01-01
Undergraduate Student Research Award is given by the Natural Sciences and Engineering Research Council of Canada based on candidates academic record and research aptitudes	
Government of Quebec - Merit Scholarship Program in Information Sciences, Computer Engineering and Construction of Computers, and Electrical, Electronic and Communications Engineering	2021-06-01
Concordia University - Concordia Entrance Scholarship	2016-12-01
A scholarship given to entering students at Concordia University which have been able to distinguish themselves academically	

Publications

Lab on a Chip - Image-based feedback and analysis system for digital microfluidics	2017-10-01
Innovative computer vision-based feedback system to optimize fluid movement on digital microfluidic chips.	

Skills

Programming Languages (Master)	CD/CI (Intermediate)
Python	Jenkins
C++	
Java	
C#	
GDScript	
Database (Intermediate)	
PostgreSQL	