

Nicholas Houghton

Curriculum vitae

WORK EXPERIENCE

SEPTEMBER 2015 - DECEMBER 2015

University of Victoria - ECE Department

Teaching Assistant

CENG 255, Computer Architecture: Responsible for student learning in a hands on lab environment. Required to have intimate knowledge of the STM32 32-bit ARM MCU use in class as well as the Eclipse IDE, the C programming language and ARM assembly programming.

SEPTEMBER 2014 - MAY 2015

University of Victoria - ECE Department

Junior Research Assistant

Responsible for the software implementation of a experimental fully-homomorphic encryption algorithm using the C++ programming language and contributed to the algorithm design and conception. Responsible for testing management and execution on the *Westgrid-Research Computing* super computer servers. Designed and built a graphical user interface for an experimental run-time operating system using the Swing JFrame.

JANUARY 2012 - APRIL 2012

Applied Engineering Solutions

Co-op Employee

Responsible for the drafting and review plans for commercial construction projects via the AutoCAD design suite. Inspected post-construction sites to create accurate 'as-built' plans for archive storage.

MAY 2011 - AUGUST 2011

MMM Group - Vancouver B.C.

Co-op Employee

Assisted Senior Project Engineers and Project Managers design and execute designs of power distribution, lighting and emergency systems in large-scale construction projects. Responsible for product data research and client-manufacturer liaison. Performed on-site quality inspection. Designed an award calculator for LEED's mercury-content, 'green'-design award using Excel.

JANUARY 2014 - DECEMBER 2014

Saanich Commonwealth Place - Victoria B.C.

Aquatic Team Leader / Lifeguard

Responsible for the direct supervision and management of lifeguards and swim instructors. Responsible for facility and equipment management. Performed incident management, quality of first-aid assessment and supervision, emergency medical services communication. Responsible for facility inter-departmental co-operation and communication.

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EDUCATION

2015-2016 **Computer Engineer**

M.ASc

University of Victoria

2010-2015 **Computer Engineer**

B.ENG

University of Victoria

PROJECTS

2015 **Hardware Trojan System**

Web Dev - HTML, C#, CSS, JS

2015 **Zombiehunt - Video Game**

Software Development - C++, OpenGL

2015 **Day Trading - Distributed System**

Software Development - Java, XML

2015 **Homomorphic Encryption**

Software Implementation Engineer - C++.
OpenMP

2014 **CORDIC Processor**

Hardware Design - FPGA on VHDL

SKILLS

SOFTWARE C, C#, C++, Java, JavaScript, HTML, CSS, Linux, OpenGL, Git, VHDL, Animation, LaTeX

ACADEMIC Calculus, Discrete Math, Physics, Academic Writing, Research, Public Speaking

PERSONAL TopCoder Competitive Programming, First-Aid, Music

REFERENCES

DR. FAYEZ GEBALI Electrical and Computer Engineering Dept, Chair
University of Victoria
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ANCA E. COJOCARU P.Eng., LEED AP Senior Design Engineer
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