

FAIZAL KARIM

Curriculum Vitae

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RICHMOND, BC V7E 2X9
CANADA

OBJECTIVE

To become part of a dynamic and challenging team that is inspired to grow. I am seeking to utilize my exemplary analytical and problem solving skills within a corporation to help achieve quality goals and contribute to the overall success of the company.

SKILLS PROFILE

- Exceptional listener and communicator who effectively conveys information verbally and in writing
- Highly analytical thinking with demonstrated talent for identifying, scrutinizing, improving, and streamlining complex work processes
- Computer-literate performer with extensive software proficiency covering wide variety of applications
- Flexible team player who thrives in environments requiring ability to effectively prioritize and juggle multiple concurrent projects
- Resourceful team player who excels at building trusting relationships with customers and colleagues
- Goal-driven leader who maintains a productive climate and confidently motivates, mobilizes, and coaches employees to meet high performance standards
- Innovative problem-solver who can generate workable solutions and resolve complaints

EDUCATION

- | | |
|---|-----------------|
| Ph.D., Electrical Engineering
The University of British Columbia, Vancouver, Canada
<i>Investigation of the Role of Quantum Correlations in the Modeling and Operation of Quantum-Dot Cellular Automata-Based Circuits</i> | Dec 2012 |
| M.A.Sc., Electrical Engineering
The University of British Columbia, Vancouver, Canada
<i>Clocking Electrode Design and Phase Analysis for Molecular Quantum-Dot Cellular Automata-Based Circuits</i> | May 2007 |
| B. Eng., Electrical Engineering
Ryerson University, Toronto, Canada | May 2005 |

WORK EXPERIENCE

- SESSIONAL INSTRUCTOR** (PART-TIME, FACULTY CONTRACT) **May 2010**
- *present*
Faculty of Applied Science,
The University of British Columbia
Courses taught: C programming, Electric Circuits and Design, Systems and Control, Design and Instrumentation, Engineering Measurements and Analog systems, Sustainability, Technology in Society
- FACULTY FELLOW** (PART-TIME, FACULTY CONTRACT, SUMMER SEMESTERS) **Aug 2010**
- *present*
UBC Student Affairs,
The University of British Columbia
Jump Start - An introduction to Canadian academic culture for incoming international undergraduate students
- T.A. TRAINING COORDINATOR** (PART-TIME, STUDENT CONTRACT) **Mar 2009**
- *present*
Faculty of Applied Science,
The University of British Columbia
Developed the curriculum for the Teaching Assistant Training program; provide training to the facilitators; assist with the program's annual budget proposals and progress reports
- TA TRAINING FACILITATOR** (PART-TIME, STUDENT CONTRACT) **Mar 2009**
- *present*
Faculty of Applied Science,
The University of British Columbia
Provide graduate students with the fundamental skills necessary to begin their work as Teaching Assistants
- UNDERGRADUATE PROJECT SUPERVISOR** (PART-TIME, STUDENT CONTRACT) **Jan 2008**
- *present*
Department of Electrical and Computer Engineering,
The University of British Columbia
Provided guidance and academic support to fourth-year undergraduate students completing their capstone project
- RESEARCH ASSISTANT** (FULL-TIME, STUDENT SALARIED POSITION) **Sept 2007**
- *present*
Department of Electrical and Computer Engineering,
The University of British Columbia
Currently investigating techniques to improve existing numerical methods for computing the dynamics and ground state of QCA circuits by modeling the effects of higher-level correlation.
- TEACHING ASSISTANT** (PART-TIME, STUDENT CONTRACT) **Sept 2005**
- **Apr 2010**
Department of Electrical and Computer Engineering,
The University of British Columbia
Assisted the course instructor in providing effective classroom instruction and academic guidance to undergraduate students
- RESEARCH ASSISTANT** (FULL-TIME, STUDENT SALARIED POSITION) **Sept 2005**
- **Apr 2007**
Department of Electrical and Computer Engineering,
The University of British Columbia
Established the limitations on the applied potential and phase of clocking electrodes to ensure error-free operation of fundamental building blocks in a clocked molecular QCA circuit.

WORK EXPERIENCE

UNDERGRADUATE RESEARCH ASSISTANT (PART-TIME, STUDENT CONTRACT)
Department of Electrical and Computer Engineering
Ryerson University

May 2003
- April 2004

Performed early validation of a potential wireless communication system that employed radio-over-fiber techniques. Designed and built a small prototype to compare physical results against numerical results.

UNDERGRADUATE RESEARCH ASSISTANT (PART-TIME)
MARFTEC Inc.

Aug 2003
- Feb 2004

Researched and developed an early prototype of a voice-operated telephone designed for individuals with low finger dexterity.

HONOURS AND AWARDS

- NSERC CGS-D Scholarship
- Faculty of Applied Science Graduate Award
- UBC Four Year Fellowship
- UBC Ph.D. Tuition Waiver Scholarship
- Micronet R&D Scholarship
- Ontario Graduate Scholarship
- Award for Academic Excellence
- Rockwell Automation Award
- Ryerson In-Program Scholarship

2008-2011
2008-2011
2008-2011
2008-2011
2007-2008
2005-2007
2005
2004
2003-2005

VOLUNTEER WORK

HEAD COACH

Vancouver Football Club

2010
- present

PROGRAM VICE-CHAIR

1st International Workshop on Quantum-Dot Cellular Automata

2009

CAMP DIRECTOR AND COACH

Ismaili Youth Soccer Camp

2005
- present

SKILLS

OPERATING SYSTEMS

- Windows XP/Vista/7
- Mac OS X
- Linux

PROGRAMMING

- C/C++
- x86 Assembly Language
- Visual Basic
- HTML

APPLICATIONS

- MS Office, iWorks
- Adobe Suite
- MATLAB, Mathematica
- LaTeX

REFERENCES AVAILABLE UPON REQUEST