Nourhan **Bayasi**

Ph.D. Candidate at UBC

Vancouver, British Columbia, Canada

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Work Experience

Teaching Assistant
September 2020 – April 2022

The University of British Columbia
Vancouver, Canada

- Marking of Exams, Quizzes, Assignments, Lab Reports, and/or Project Reports as directed by the course professor.
- Set up of equipment in preparation of Lab Sections as directed by the course professor.
- Supervision and instruction of students in Lab Sections, Tutorial Sessions and Office Hours as directed by the course professor.

Graduate Academic Assistant – EECE 570: Fundamentals of Visual Computing
June 2020 – August 2020

The University of British Columbia
Vancouver, Canada

- Assist professor in transition to online-teaching: Design a course blueprint, determine how asynchronous and synchronous learning will work for the course, find suitable tools, prepare presentation slides, etc.
- Redesign assessments to build flexibility.

Lab Instructor – Electrical Engineering Department
August 2018 – December 2019

Higher Colleges of Technology
Sharjah, UAE

- Assist in the development of labs.
- Support students and faculty in using machines, tools and equipment within the laboratory.
- Support faculty and students in resourcing and implementation phase of student projects.
- Receive, install and maintain laboratory equipment and supplies.
- Maintain a schedule of preventative maintenance for all equipment and keep adequate manuals and maintenance logs for equipment and parts.
- Demonstrate the use of machines, tools and equipment within the lab.
- Maintain consumable materials store and ensures adequate inventory levels for supplies.
- Maintain systems and procedures to track borrowed equipment and tools.
- Observe and reinforce safety and housekeeping procedures and protocol within the laboratory.
- Aid staff and students in the purchasing procedures with regards of equipment and parts for student projects.
- Labs taught: Digital Circuits, Electrical Circuits, Electronics I, Electronics II, PCB, Communication Systems, SDP, etc.

Instructor - Technical Studies Program (Vocational Program)
August 2017 – July 2018

Higher Colleges of Technology
Sharjah, UAE

- Curriculum development: Plan, design and develop of training materials and assessment instruments in line with awarding body requirements [NCFE, EAL].
- Identify and assess learner needs and create effective learning options to meet those needs.
- Deliver training of the highest standards which meets the requirements set out in the specification for qualifications to support learners in achieving defined learning outcomes.
- Deliver training using a variety of training aids and appropriate resources to suit learner needs.
- Plan and conduct assessment activities in line with the standards required by the program.
- Develop and update delivery training curriculum to incorporate feedback and adapt to changing business needs, preparing materials and training rooms for workshop activities, developing new curriculum or modify existing materials to meet the needs of the learners.
- Identify, select and modify workshop resources to meet the needs of learners with varying backgrounds, learning styles and special needs as approved.

Workshop Engineer – Electrical Engineering Department
September 2015 – July 2017

Institute of Applied Technology
Abu Dhabi, UAE

- Reinforce lessons presented by the professor by reviewing material with students one-on-one or in small groups.
- Support professor in the development and implementation of teaching modules and projects.
- Marking of Exams, Quizzes, Assignments and Lab Reports.

Teaching Assistant
September 2013 – June 2015

Khalifa University
Abu Dhabi, UAE

- Reinforce lessons presented by the professor by reviewing material with students one-on-one or in small groups.
- Support professor in the development and implementation of teaching modules and projects.
- Marking of Exams, Quizzes, Assignments and Lab Reports.

Academic & Vocational Qualifications

Ph.D. in Electrical and Computer Engineering

THE UNIVERSITY OF BRITISH COLUMBIA

January 2020 - Current

Vancouver, Canada

- Thesis: Improving lifelong learning of Deep Neural Nets with focus on Medical Image Analysis.
- CGPA: 4.0/4.0

Level 3 Award in Assessing Vocationally Related Achievement

NCFE

August 2017 – May 2018

Sharjah, UAE

- Funded by Higher College of Technology as part of Professional Development.

Master of Science in Electrical and Computer Engineering

KHALIFA UNIVERSITY

September 2013 – June 2015

Abu Dhabi, UAE

- Thesis: An ECG Signal Processor for the Prediction of Ventricular Arrhythmia.
- CGPA: 3.7/4.0

Bachelor of Science in Communication Engineering

KHALIFA UNIVERSITY

September 2009 – June 2013

Abu Dhabi, UAE

- CGPA: 3.96/4.0 (Excellent with Highest Honor)

Honors & Awards

2022	**Vanier Scholarship, Canada's most prestigious scholarship**, NSERC	*Canada*
2022	**Four Year Fellowship (4YF) for PhD Studies**, UBC	*Canada*
2021	**Dr. and Mrs. Brandwajn Graduate Award in Electrical and Computer Engineering Award**, UBC	*Canada*
2021	**Faculty of Applied Science Graduate Award**, UBC	*Canada*
2021	**President's Academic Excellence Initiative PhD Award**, UBC	*Canada*
2020-22	**International Student Award**, UBC	*Canada*
2021	**Travel Award**, Recipient of MICCAI Student Travel Grant.	*France*
2020	**Scholarship Award**, PhD Studies, The University of British Columbia.	*Canada*
2016	**Best Paper Award**, IEEE Transactions on Very Large Scale Integration.	*Canada*
2013	**Best Poster Award**, 1st Place, Undergraduate Research Conference on Applied Computing, Zayed University.	*UAE*
2013	**Best Prototype Award**, 2nd Place, Engineering Student Renewable Energy Competition, UAE University.	*UAE*
2013	**Leadership Award**, Best Student Category, Khalifa University.	*UAE*
2013-2015	**Scholarship Award**, Master Studies, Khalifa University.	*UAE*
2009-2013	**President List Award**, College of Engineering, Khalifa University.	*UAE*
2009-2013	**Scholarship Award**, Bachelor Studies, Khalifa University .	*UAE*

Professional Development – Certificates

2019	**Deep Learning: a 5-course specialization by Deeplearning.ae.**, Online	*Coursera*
2019	**Data Science: Deep Learning in Python**, Online	*Udemy*
2015	**Analog and Mixed Signal, System C, Virtual System Platform**, In-person training	*Cadence*

Publications

Link to my Google Scholar Account

Computer Skills

OS	Windows, MAC
Software Programming	Python, Matlab, C++
Hardware Programming	Synopsys Custom Flow, Verilog, SystemVerilog
Simulation	Tinkercad, Multisim, Simulink

References

Available upon request.