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Ariel Laboriante

Electrical Engineering

SKILLS

Languages
C/C++
Java
Verilog
VHDL
HTML/XML
CSS
JavaScript

Software Tools
Visual Studio Express
Vivado HLS
Vivado Design Suite
ModelSim
PosPac MMS
Optech LMS
Polyworks
MATLAB
Eclipse
Cadence
Synopsys
PSS/E
PSIM
BSL PRO
LabVolt DAC-EMS
PSPICE OrCAD
Oxygen XML Editor
MS Project

EXTRACURRICULAR

York Faculty Committee
Student representative for LCS (Learning, Curriculum & Students)

Excel lassonde - YorkU
Volunteer tutor

IBM Future Blue Day
Team leader

IBM Campus Tour
Student ambassador

JA Central Ontario
Workshop facilitator

WORK EXPERIENCE

FPGA Developer - Teledyne Optech   May 2018 - Dec 2018

- Developed FPGA firmware for airborne and ground-based lidar products
- Specialized in high level synthesis targeting the Xilinx FPGA in a Vivado environment
- Worked on code restructuring and using directives to optimize the area and latency
- Responsible for design, analysis, simulation, implementation, and testing of firmware
- Participated in the collection of specifications and preparation of documents

Content Designer for Db2 – IBM Canada   May 2016 - Aug 2017

- Updated official web documentation for IBM software products in XML
- Rapidly learned software design concepts of Db2 LUW, Db2 for z/OS, BigInsights, and Db2 on Cloud to communicate features with a development audience
- Managed documentation repositories and tested site builds; debugged DITA files and troubleshoot technical issues with internal documentation software
- Organized and hosted knowledge transfer classes for new hires
- Successfully met deadlines and workflow in agile software development life cycle

Research Assistant - York University   May 2015 – Aug 2015

- Contributed to the YorkU Spacecraft Dynamics Control and Navigation laboratory
- Collaborated with a team of graduate students in developing an airborne 2D-imaging Fabry-Perot spectrometer system for the Earth and Space Science & Engineering
- Gathered technical specifications for project components and power supply
- Reviewed standards for reducing EM radiation and prepared reports for scrums

EDUCATION

Honours Bachelor of Engineering - Electrical Engineering   Expected June 2019
York University, Toronto

AWARDS

- First place in Coolest Hack Category at ElleHacks - Major League Hacking 2018
- Certified Database Associate for IBM Db2 10.1 - 2017
- Recipient of the Lassonde Scholarship ($80,000 value) - YorkU 2013
- Member of the Dean's Honor Roll - YorkU 2014

PROJECTS (ariellaboriante.github.io/#projects)

Capstone project - Indoor UAV navigation using photogrammetry and image processing
York campus power system - Power flow analysis and microgrid simulation in PSS/E
Opamp design - Redesigned a two-stage opamp in Cadence for performance and met specifications (gain, bandwidth, phase margin, input common mode range, slew rate)
ECG prototype - Built a working electrocardiogram on breadboard and tested on a subject