Alex Vazquez

http://alexvazquez.xyz

EDUCATION

The University of British Columbia

Bachelor of Electrical and Computer Engineering;

Aug. 2017 - Present.

Vancouver, CA

Perimeter Institute of Theoretical Physics

Waterloo, CA
Nov. 2016 - January. 2017

Email: alexyzyz28@gmail.com

Quantum World and Quantum Nature Certification;

West Vancouver, CA

West Vancouver Secondary School
Completion of the International baccalaureate;

Aug. 2014 – June. 2017

EXPERIENCE

INETCO Systems ltd.
Junior Software Engineer

Burnaby, CA

May 2018 - September 2018

Using the Agile development methodology did the following:

- Successfully migrated batch automated build testing scripts to Python, increasing its configurability and improving its functionality.
- Authored a Slack-Bot in order to control, automate and show results of builds testing, reducing the testing time.
- Developed analytical custom dashboards using Java, SQL and JavaScript on Jaspersoft Studio for NCR, which output data in half the time previous dashboards did.
- Implemented the installers ability to automatically detect host OS environment, simplifying the installation process.
- Created an Impala testing server on Redhat, using unix and SQL.

UBC Orbit

UBC, CA

• Senior Controls Engineer

Aug 2017 - Present

Senior Member of the UBC Engineering design team UBC Orbit, with the objective to build a fully automated satellite. Part of the Attitude Determination and Control Systems(ADCS) division, where I:

- Implemented the Kalman Filter system in C++.
- Implemented a detumbling algorithm using a b-dot and PID controller for the control of U-SAT.
- Successfully created and tested code to obtain and analyze output from IMU connected to Micro-controllers.
- Developed and tested the SunSensor micro-controller processor.
- Designed and fabricated custom PCBs for the ADCS division and its components.

Bowman Technologies Software Engineering Intern Vancouver, CA

December 2016 - August 2017

Worked as a Junior Software Engineer Intern for Bowman Technologies;

- Created Excel Sheets using Js to illustrate clients their expenditure to performance ratio using the products offered by Bowman Technologies.
- Performed data entry tasks were I gained knowledge in advanced excel applications.
- o Optimized website, in order to facilitate maintenance and reduce loading time.

PROJECTS

- Alexvazquez.xyz: Personal Online Portfolio to provide employers a more in-depth interactive CV.
- Small Steps: Cross-Platform app to monitor heart-rate, location, log therapy and display trends.
- Jenkins-Bot: Slack-Bot to control, automate and receive output remotely from Jenkins.
- AI-larm: Machine Learning python app using SK-Learn to predict wake up time and suggest optimal bedtime.

TECHNICAL SKILLS

- Programming: C-C++, Python, HTML5 + CSS3, MatLab, SQL, LATEX
- Software: Minerva (By: CERN), Solidworks, Altium, Excel, ModelSim, ANSYS, JasperSoft
- Languages: English, Spanish, French and beginner Italian
- Methodologies: Agile, Waterfall

AWARDS

UBC Physics Olympics

UBC, CA

1st place overall in the UBC high school physics olympics.

Dec. 2016.

International Baccalaureate

West Vancouver, CA

Award and certificate for Completion of IB Curriculum

June. 2017