

Christian Valdez

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Education

Master of Engineering - Software

May 2023 – May 2024

- Schulich School of Engineering, University of Calgary

Bachelor of Science in Electrical Engineering

Sep 2018 – May 2023

- Schulich School of Engineering, University of Calgary
- Relevant Coursework:** Programming Fundamentals, Statistics, Linear Algebra, and Calculus.

Capstone Design Project

Genoptic LED Inc., Calgary, AB

- Collaborated with a group of 5 students to design an IOT box that monitored agricultural processes.
- Implemented manual test processes to verify that results were accurate or precise.
- Programmed on STM32 microcontroller using C and Zigbee to transmit data between a network.

Experience

Centre Assistant

May 2023 – Present

Kumon, Calgary, AB

- Assist students by marking assignments and ensuring they complete classwork, resulting in fast feedback during centre hours.

Quality Assurance Intern

Jul 2021 – Apr 2023

Computer Modelling Group Ltd., Calgary, AB

- Analyzed quality-related information by leveraging automated black-box tests, resulting in daily product feedback to developers. Bugs were logged using Azure DevOps.
- Modified ClearCase builds to Git commands to increase software standards.
- Developed automated workflows to simulate templates, collect results and populate Excel files resulting in the decrease of manual processes.
- Transitioned all tests to a unified TeamCity server for improved scheduling and less server maintenance.
- Introduced test to check for memory and threading errors to ensure product reliability and security.
- Coached a new intern to be a high-performing team member. Updated reporting and training documents.

Skills

- Languages:** Python, Java, JavaScript, C, C#, MATLAB, VHDL, HTML/CSS, Batch, Bash.
- Software:** Git, Azure DevOps, TeamCity, ClearCase, Arduino, SolidWorks.
- Microsoft Office:** Word, Excel, PowerPoint, Outlook.

Other Relevant Projects

Monitoring Breathing Rate in Sleeping Patients | University of Calgary (BT Lab)

- Developing scripts to clean data with the goal of creating a machine learning algorithm to detect breathing rate in sleeping patients.

AWS Deep Racer

- Created machine-learning models for RC cars to race around virtual and physical tracks.

Automated Scripts for Multimedia Workflow

- Developed workflow using Python to decrease manual tasks by over 80%.