

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

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 testing plans to verify that results were accurate or precise.

Experience

Center Assistant May 2023 – Present

Kumon, Calgary, AB

- Assisting students by grading assignments and ensuring completion of classwork, providing prompt feedback during center hours

Quality Assurance Intern Jul 2021 – Apr 2023

Computer Modelling Group Ltd., Calgary, AB

- Analyzed quality-related information through automated black-box tests, providing daily product feedback to developers. Logged and tracked bugs using Azure DevOps.
- Enhanced software standards by modifying ClearCase builds and incorporating Git commands.
- Developed automated workflows for template simulation, result collection, and Excel data population, streamlining manual processes and enhancing data visualization.
- Transferred all tests to a unified TeamCity server for improved scheduling and reduced server maintenance.
- Introduced memory and threading error tests to enhance product reliability and security.
- Coached a new intern to become a high-performing team member while updating reporting and training documents.

Projects

Portfolio Website June 2023 - Present

- Developing a responsive website using HTML/CSS/JavaScript for a customized portfolio.

Monitoring Breathing Rate in Sleeping Patients | University of Calgary (BT Lab) June 2023 - Present

- Writing Python scripts to extract and clean data from patient videos, aiming to create machine-learning algorithms for detecting breathing rates in sleeping patients.

Automated Scripts for Multimedia Workflow

- Developed Python scripts to automate populating PowerPoint slides, reducing manual tasks by over 80%.

Skills

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