

# Christian Valdez

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## Education

### Master of Engineering in Software Engineering

May 2023 - Present

- Schulich School of Engineering, University of Calgary

### Bachelor of Science in Electrical Engineering

Sep 2018 - Apr 2023

- Schulich School of Engineering, University of Calgary

### Capstone Design Project

Genoptic LED Inc., Calgary, AB

- Designed an IoT device using STM32 to record plant growth and send data to a local server.
- Prototype demonstrated  $\pm 2\%$  accuracy, with over 95% of data received within the specified range.

## Skills

- Languages:** Java, Python, JavaScript, C/C++, C#, SQL, MATLAB, VHDL, HTML/CSS, Batch, Bash.
- Frameworks and Tools:** Git, Azure DevOps, MySQL, Django, NodeJS, ExpressJS, Postman, jQuery, JUnit, Bootstrap, SQLite, ClearCase, Arduino.
- Microsoft Office:** Word, Outlook, Excel, PowerPoint.

## Experience

### Research Assistant

Jun 2023 - Present

Biometric Technology Lab, Calgary, AB

- Conducting research to identify respiration patterns from video-based sources.
- Developed scripts to automate the process of data cleaning and extraction.
- Utilized the Python libraries NumPy, Pandas, OpenCV, and Matplotlib.

### 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 maintenance.
- Introduced memory and threading error tests to enhance product reliability and security.
- Coached a new intern to become a high-performing team member and updated training documents.

## Projects

### Calgary Neighborhood Poll

- Developing an interactive statistics website using open Calgary data to aid prospective buyers or renters.
- Building the website with Django and managing data using SQLite.

## Portfolio Website

- Designed a responsive website showcasing a customized portfolio.

### Automated PowerPoint Slides

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