# **Christian Valdez**

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### **Education**

### **Master of Engineering - Software**

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 ± 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.
- Framework and Tools: Git, MySQL, Django, Bootstrap, NodeJS, ExpressJS, Postman, jQuery, JUnit, Azure, SQLite, ClearCase, Arduino.

## **Experience**

Research Assistant Jun 2023 - Present

Biometric Technology Lab, Calgary, AB

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

- Developed a responsive website using for a customized portfolio.
- Coded using HTML, CSS, JavaScript.

### **Automated PowerPoint Slides**

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