

Jared Jasinski

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Kitchener, Ontario, Canada

Education

The University of Western Ontario, London, Ontario, Canada

Bachelor of Engineering Science, Electrical Engineering

Work Experience

Jr. Systems Designer – Nuclear - ATS Automation

Sept 2023 – Present

- Authored extensive technical documentation including Calculation Reports, Chemistry Lists, Failure Mode and Effects Analyses (FMEAs), and Requirement Traceability Matrices (RTMs)
- Collaborated with external stakeholders to refine and adjust design projects based on detailed feedback, ensuring client standards are met
- Involved in the development of CANDU reactor refurbishment tools that will significantly decrease radiation exposure for reactor refurbishment operators

QA Automation Analyst - J.D. Power

May 2023 – July 2023

- Created and maintained a robust test suite using Playwright ensuring comprehensive coverage and reliability
- Integrated the automation system with robust CI/CD pipelines to enable seamless continuous testing and deployment, resulting in the efficient identification of bugs in new builds and expedited issue resolution

QA Automation Analyst Intern - J.D. Power

May 2021 – Aug 2022

- Created automated dynamic test suites using the Serenity BDD framework for 2 upcoming North American car dealerships' APIs, ensuring that over 250 vehicle datapoints are correct
- Designed Stellantis Canada's test result uploading pipeline, that stores the results of over 20 APIs' test suites in a SQL database, allowing for more up-to-date results for over 4,000 tests
- Constructed and maintained a Grafana dashboard that displays stored performance metrics from the result uploading pipeline, giving visual aids on which services or test suites require maintenance

Engineering Projects

Retro Gaming Handheld

August 2022

- Used Fusion 360 to 3D model 6 input buttons, a directional pad, and electronic housing
- Programmed Raspberry Pi GPIO to be used in emulation software, using 3D printed buttons as inputs

16x16 Programmable LED Matrix

July 2021

- Programmed an Arduino microcontroller to display eight different custom images on a 16x16 LED matrix controlled by a joystick
- 3D printed controller, display frames, and mounting mechanism using Solidworks

Microcontroller Door Lock

Apr 2021

- Wrote multiple different lock functions in C, including timeout after too many incorrect attempts, and setting and changing an 8-digit passcode
- Utilized a series of 7-segment displays to show user inputs, warnings, and current lock state controlled by the ARM-DE1-SoC's 32-bit registers

Electric Guitar Pedal

Aug 2019

- Sourced the appropriate electronics after using circuit simulation software to find the required components for the desired change in electric signal
- Measured the circuit's input and output signal using an oscilloscope while applying an input signal with an electric guitar

Skills

Software: Solidworks, Fusion 360, Kubernetes, Docker, LTSpice, Eagle

Languages: Java, TypeScript, JavaScript, Python, C, SQL, MATLAB