Jared Jasinski

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Kitchener, Ontario, Canada

Work Experience

Nuclear Systems Designer - *ATS Corporation* *Aug 2023 – Present*

- Perform testing, inspection, and integration of semi-automatic tooling for fuel channel installation, directly supporting nuclear systems engineering and refurbishment projects at Ontario nuclear sites.
- Manage system design and conduct proof-of-concept testing for vacuum and air filtration units used in CANDU reactor refurbishment projects across Europe and Asia, ensuring compliance with international standards, CSA N299, CSA N285.0, ISO 9001, and ASME codes.
- Developed contingency tooling for Bruce Power utilizing a Brokk demolition robot and custom telescoping cutting end-of-arm tooling (EOAT) for fueling machine gearbox failures; performed stability and cutting-force calculations to ensure equipment remained upright in the reactor vault and the saw possessed sufficient torque to penetrate high-strength steel.
- Support nuclear decommissioning and waste management initiatives by integrating and testing advanced waste packaging systems at a Canadian nuclear facility, including a live demonstration to the customer.
- Develop custom data analysis programs to validate performance of high-stakes nuclear installation tools, applying signal processing techniques to ensure tooling precision in safety-critical applications.
- Prepare technical reports, verification matrices, calculation packages, FMEA, test/commissioning procedures, and safety documentation in compliance with CSA N299 quality assurance requirements.
- Integrate and test Individual Tool Controllers (ITCs), Local Control Panels (LCPs) and Power Distribution Systems (PDSs) to be used for nuclear reactor refurbishment tooling.
- Collaborate with internal and external stakeholders, incorporating feedback to refine system designs and ensure all deliverables align with customer expectations and regulatory standards.
- Contribute to STEM education and training initiatives by conducting multi-week robotics workshops for high school students, demonstrating ability to communicate complex engineering concepts and foster technical development in others.

QA Analyst - *J.D. Power* *May 2023 – July 2023*

- Created and maintained a robust REST 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 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 data points were 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.

Education

The University of Western Ontario, London, Ontario, Canada
Bachelor of Engineering Science, Electrical Engineering

Skills

Software: SolidWorks, Fusion 360, Docker, LTSpice, Eagle, Microsoft Office, Linux, Jira, AI tools (ChatGPT, Claude, Copilot, Gemini, Cursor).
Languages: Java, TypeScript, JavaScript, Python, C, SQL, MATLAB, VBA.
Licenses & Certifications: DELF B2 (French Language Diploma), Possession and Acquisition Licence.