Chris Jiang

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EDUCATION

Bachelor of Computer Engineering & Management (Co-op)
McMaster University — Hamilton, ON

EXPERIENCE

AMD — **May 2023 - May 2024**
Graphics Driver Software Developer — Markham, ON

- Performed post-silicon validation on both APU and dGPU systems, including BIOS flashing, S3 power state testing, and game-based rendering validation.
- Created Python and PowerShell scripts, boosting test coverage by 2% and reducing manual workload in regression testing.
- Triaged issues using debug tools and logs, accelerating root cause analysis and enhancing driver stability across releases.
- Worked with design, diagnostics, and driver teams to plan test strategies and ensure coverage across firmware, BIOS, drivers, and real-world workloads.

PROJECTS

Groovy.io (Capstone) | Python, Flask, React, JavaScript, HTML, CSS, MongoDB

- Developed an intelligent DJ platform system that analyzes songs for tempo, key, and lyrical phrasing, enabling seamless real-time audio transitions.
- Created a custom audio mixing algorithm with beat alignment, phrase-aware crossfades, and chorus detection, improving overall mix quality.
- Built a responsive interface with React and Flask, allowing users to search, preview, and mix tracks using preprocessed metadata from MongoDB.

Pacemaker (Academic) | PHP, Python, HTML, CSS, Simulink

- Built a full-stack web app for managing 100+ pacemaker user profiles, enhancing accessibility and secure data storage.
- Simulated pacemaker functionality in Simulink for real-time hardware emulation and system validation.
- Visualized heart activity with live output graphs using Python, supporting real-time monitoring and medical decision-making.

Sorting and Recycling System (Academic) | Python

- Programmed robotic devices to automate sorting with 95% accuracy, increasing recycling throughput.
- Engineered a sensor-based classification system to distinguish material types, reducing manual error and improving reliability.

EXTRACURRICULARS

MAC RoboMaster — **Sept. 2021 - May 2023**
Controls Team — Hamilton, ON

- Reduced energy consumption by 10% by designing a microcontroller-based power limit switch for keyboard input control.
- Improved ammo supply reliability by 5% through dynamic shaking logic and optimized motor control algorithms.
- Boosted match performance by automating attack mode activation using real-time health data analysis and Python-based video feedback.

SKILLS

Languages: Python, C, C++, Java, JavaScript, Kotlin, HTML, CSS, SQL, PHP, PowerShell, Verilog
Frameworks & Libraries: React, Flask, Django
Tools & Technologies: Git, GitHub, Jenkins, Jira, MongoDB, MATLAB, Quartus