ADAM KIM

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EDUCATION

Queen's University | Smith Engineering Sept 2024 – May 2028 (expected)
Bachelor of Applied Science, Mechanical Engineering | Cumulative GPA: 3.91/4.3

EXPERIENCE

Fairstone Bank May 2026 – Aug 2026
Compliance Process Automation Summer Student

- Reduced weekly fraud-team employer matching from approximately 8 hours to 5 minutes by developing a Python fuzzy-matching program comparing 770 names against 735,000+ reference names.
- Reduced compliance QA report preparation from an estimated 3–6 hours to about 5 minutes by building a Python tool that transforms Excel and Word inputs into formatted reports using a custom template.
- Supported different QA review types by implementing review-specific rules, independently runnable report sections, placeholder replacement, and text-tense and table-formatting transformations.

Home Trust | Toronto, ON May 2025 – Aug 2025
Corporate Compliance Summer Student

- Assessed 12,000+ client profiles and screening alerts for potential money-laundering risks by comparing identifiers against criminal and political-exposure records.
- Supported audit and regulatory reporting by documenting investigation workflows and findings and coordinating consistent application of AML procedures across teams.

ENGINEERING PROJECTS

Automated Water Treatment Prototype Team project
Mechanical design, fabrication, Arduino integration and testing

- Co-developed a prototype that produced a reported 50 mL of clarified and filtered water in under 10 minutes by integrating alum dosing, magnetic mixing, pumps, and sensor-based sequencing.
- Identified dosing jams and mixer guide lift during testing of the rotary dispenser and 50:1 worm-drive mixer, informing proposed clearance, alignment, and support improvements.

Femoral Head Indexing Mechanism Team project
Mechanism design, fabrication and motor testing

- Co-built a belt-driven mechanism that moved a simulated femoral head through three stations in a reported cycle under 27 seconds, using reclaimed materials and course-provided motor controls.
- Evaluated three concepts using a weighted decision matrix and investigated belt slip and structural compliance as sources of unresolved positioning error.

Desktop Wind Tunnel In progress

- Developed requirements, airflow calculations, and concept iterations for a desktop tunnel; specified the design for AI-assisted SolidWorks model generation. CAD is complete; physical testing is pending.

TECHNICAL SKILLS

Design and testing: SolidWorks, mechanical design, prototyping, experimental testing, data analysis
Programming: Python (pandas, NumPy, openpyxl, RapidFuzz), MATLAB, C/C++, Java, SQL
Automation: Data processing, fuzzy matching, template-based report generation, Arduino integration
Tools: Microsoft Excel, Word, PowerPoint, Git, GitHub, PowerBI
Languages: English (native), French (DELF B2)