Matthew Mamelak

Toronto, Ontario

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Personal Website
LinkedIn

Education

Bachelor of Applied Science – Computer Engineering, **Queen's University**, Kingston, ON 2020-2024

- ***Principal's Scholarship-*** Awarded to students who achieved an overall average of 95% and above throughout their final year of high school (2020).
- ***Dean's Scholar***-Awarded to students who have achieved a minimum GPA of 3.5 (2021, 2022).

High School Diploma, **Tanenbaum Community Hebrew Academy**, Toronto, ON June 2020

Academic Honors:

- Academic Honor Roll Awards at Achievement of Excellent Assemblies. Awarded to students who obtain an overall average of 90% or greater during any academic year (2018, 2019, 2020).
- The Danny & Anita Chai Engineering Program Certificate. A certificate awarded to students who completed a four-year engineering specialty program in high school (2020).

Work Experience & Extracurricular Clubs

Operations Automation Analyst, Business Innovation Team May 2022 - Present

Toronto-Dominion Bank (TD), Toronto, ON

- Created three different Microsoft Power App based applications to simplify, automate and confirm (through an audit trail) financial transactions among financial institutions.
- Used Visual Basic (VBA) Macro Programming & Documentation to develop a sophisticated business control & audit dashboard to allow senior managers to sort and track large data sets and confirm adherence to banking procedures.
- Used Python and Microsoft Excel to program an automation tool allowing users to generate automatic email replies to senior management that are linked to large data sets.

Summer Intern May-September 2021

Custom Biologics, Toronto, ON

- Collaborated with a team of scientists to devise and program a barcoding strategy to track the analysis of clinical samples for the SARS-nCoV2 virus.
- Assisted with the programming of a point of care diagnostic instrument to read company-specific barcodes.

Software Design Team 2021 - Present

Queen's University, Kingston, ON

- Member of the interdisciplinary Bio mechatronics design team that designs and manufactures wearable bionic systems to improve human kinetics by analyzing and enhancing human motion.
- Developed software code to translate information from the bionic sensors to safely control human motion.

Computer Languages & Certificates

Computer Languages: Python, Java, C/C++, R, Arduino IDE, SolidWorks, SQL, Visual Basic (VBA), HTML

Certificates: Machine Learning: Hands-On Python and R in Data Science – Udemy
Master Advanced Excel Data & Analytics Skills – LinkedIn Learning
HTML Essential Training – LinkedIn Learning
SQL Essential Training – LinkedIn Learning