

# Matthew Mamelak

96 Carmichael Ave, Toronto, ON M5M2W9

T:647-991-5579

E: [matthewmamelak@gmail.com](mailto:matthewmamelak@gmail.com)

[LinkedIn](#)

[GitHub](#)

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## 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).

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## Work Experience

*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.

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## Extracurricular Computer Engineering Clubs

*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.

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## *Engineering Practice Team*

2021

### **Queen's University**, Kingston, ON

- Collaborated with a team of students to develop a rocket engine test stand for the Queen's Rocket Engineering Team.
- Coded a force sensor using Arduino and demonstrated adaptability by modelling the sensor's performance using SolidWorks.
- Assumed a leadership role as team co-lead by assigning tasks to other members, organizing meetings with the client, and proofreading documents for accuracy and completeness.

## 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

References available upon request.