### **EDUCATION:**

## UNIVERSITY OF TORONTO - Toronto, ON, Canada

**Expected Graduation May 2025** 

Bachelor of Science Engineering Science | Major: Biomedical Systems Engineering | Minor: Engineering Business

#### **COURSES/EXAMS:**

**ENGINEERING SCIENCE ENGINEERING BUSINESS BIOMEDICAL SYSTEMS ENGINEERING (BMS)** Engineering Math & Computation Intro to Civil Engineering Modeling, Dynamics & Control of BioMed. Engineering Technologies Fundamentals Accounting & Finance Fundamentals of Electrical Circuits Calculus I Biological Systems Biomaterials & Biocompatibility Microeconomics Classical Mechanics Calculus II BMS Engineering: Organ Systems Molecular Biophysics Macroeconomics Molecules & Materials Calc III Ordinary Diff. Equations BMS Engineering: Cells & Tissues Introduction to Neuroscience Economic Analysis/Decision Making BMS Engineer: Molecules & Cells Electromagnetism Vector Calculus Patents in Biology & Med. Devices Markets & Competitive Strategy\* Thermodynamics & Heat Transfer People Management & Fluid Mechanics BMS Engineering: Computational Cellular & Tissue Biomechanics\* Quantum & Thermal Physics Linear Algebra Systems Biology Design of Effective Products\* Organizational Behavior Fund. of Biomedical Engineering Probability & Statistics Eng. Sci. Seminar: BioMed Careers Cellular & Molecular Biology of Praxis I: Foundation of Eng. Design Intro to Computer Programming Organic Chemistry & Biochemistry the Synapse\* Praxis II: Eng. Design & Ethics Comp Algorithms Data Structure Applied Polymer Chemistry Engineering Ethics & Society Digital & Computer Systems Science and Engineering \* 2024/25 Course University of Toronto, Engineering Society | Student Consulting Association | Cube Club - Biomedical Engineering | Running Club | Wrestling Club |

THESIS and INTERNSHIP: to be completed coming academic year

2024-2025

#### **BUSINESS PROJECTS:**

Biomedical Technology Project | Biomaterial & Medical Device Product Development: Steerable Guidewire

Winter 2024

Stakeholders - UofT Cardiologist and surgical team

Capstone Design Project | Biomedical Systems Engineering Design: Metastable Surgical Tools

Winter 2023

Stakeholders - Mount Sinai surgeons.

Engineering Business Case Competition | Business Analysis & Industrial Engineering: Logistics Optimization

Fall 2023

Stakeholders – Sardo Foods. Awarded 1<sup>st</sup> Prize UofT Engineering Business Review.

Praxis III Eng. Science Design Project | Business Analysis & Process Engineering: Manufacturing Re-engineering

Winter 2022

• Stakeholders: Business Owner and process manager, Georgia Tech peer review.

<u>WELLINGTON COLLEGE</u> - Crowthorne, Berkshire, UK (incl. exchange student United World College Of Southeast Asia, Singapore). 2015 to 2020

## COURSES/EXAMS

INTERNATIONAL BACCALAUREATE (2019-2020)

ADVANCED LEVEL STANDARD LEVEL Mathematics Design Technology
Mathematics Economics Physics Computer Science

Physics English Chemistry Geography
Chemistry French Biology English Language

Duke of Edinburgh Gold Award | Global Social Leaders Initiative, Shanghai | LAMDA Public Speaking G6 | ABRSM Piano G5 | Athletics | Captain Clays Team | Community IT Support |

## **WORK EXPERIENCE**

Imago Restaurants - Toronto, ON, Canada | Management Trainee

Summer 2022

English Literature

French

Customer Service, Stock Control, Supplier co-ordination, Bookkeeping and Cash Management, Service Engineering

Ideaz - Glastonbury, CT, USA | Rapid Prototyping Engineering Intern

Summer 2019

Refined product concepts through step-by-step engineering design process to prepare for manufacture.

University of Surrey Advanced Technology Institute - Guildford, Berkshire, UK | Research Assistant

Summer 2018

Administered stress testing on nanotube transistor designs using Plasma Enhanced Chemical Vapor Deposition.

## **LEADERSHIP & VOLUNTEER ACTIVITIES**

## Rustic Pathways Critical issues Summit - Cambodia and Thailand | Sustainability Initiative

2019 - 2020

• Developed hydroponic farming plan for floating village communities on the Mekong River. Awarded Social Innovation design challenge prize.

## Life Remodeled - Detroit MI | Mayor's "Grow Detroit's Young Talent" Intern/Volunteer

July 2017

• Role model to teens; blight removal in surrounding neighborhood; assisted with outreach for local community projects.

# Bowery Mission - New York, NY USA | Volunteer

June 2016

Prepared meals for the homeless and served food; cleaned kitchen, storeroom and performed stock control.

# **SKILLS AND OTHER QUALIFICATIONS**

Design: Rapid Prototyping, CAD, Product Development, Design Optimization, Business Analysis, Engineering Design Process.

Tools: Fusion 360; Solidworks; Programming, Verilog/C/C++/Python.

Other Proficiencies: Excel; Microsoft Office; French (conversational); customer engagement/sales.

US & UK Citizen, Canadian Permanent Resident.