Abie Thattamparambil

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Aspiring Bio-medical engineer with a specialization in management sciences. Aiming to leverage my academic experience, research, and leadership to successfully innovate and develop technology to help improve the quality of life from a health and wellbeing standpoint. With my utmost sincerity and hard work, I can be relied upon to perform allocated tasks and achieve the goals

EDUCATION

Ryerson University   Toronto, ON
Bachelor of Applied Science and Engineering - Biomedical Engineering   EXPECTED 05/2027
Relevant coursework: C/C++ Programing Fundamentals, Signals and Systems, Electrical
Machines and actuators, Control Systems and Bio-Robotics, Biomedical Instrumentation, Microprocessor Systems

Raha International School   Abu Dhabi, UAE
International Baccalaureate Diploma Program   2019/2021
Relevant coursework: *Higher Level:* Chemistry, Biology, and, English Language and Literature

EXPERIENCE

MBG Corporate Services: Marketing and Business Development Intern   Abu Dhabi, UAE
                                                                                                                                                       May-August 2022

- Gained hands-on experience in Telecommunications and Business Development by analyzing market trends and created strategic initiatives through slide decks and reports to drive growth.
- Designed and created a rehabilitative exoskeleton for the hand through 3D printing, electrical circuit analysis and coding. Successfully secured a multinational client for the company

PROJECTS

C Code Project: Temperature Analysis of Lake Ontario   01-03/2021
- Developed and implemented a C code project to analyze temperature fluctuations in Lake Ontario, utilizing data processing techniques to identify patterns and trends.
- Managed a team of four and delegated different parts of the projects evenly based on the strong suits of each member

Motorized 3D Printed Orthosis: 01-03/2022
- Designed and created a rehabilitative exoskeleton for the hand through 3D printing, electrical circuit analysis and coding.
- Primarily focused on the coding and hardware required for the product to function.
- Worked with a team of four using communication strategies resulting in an A+ on the project.

Machine Learning Model for Kidney Cancer Detection: 08-09/2024
- Designed and trained a machine learning model for Kidney Cancer detection using CAT and PET scans, achieving a 92% accuracy.
- Utilized Generative AI and Data Augmentation to balance datasheets due to ethical constraints in acquiring medical images.

EXTRA-CIRRICULARS

- **Certified PADI Rescue Diver:** Completed the PADI rescue diving and first aid certification in scuba diving.
- **Toastmasters:** Completed the toastmasters international communication program and achieved multiple best speaker awards and best table topic speaker awards.
- **Modeled United Nations Topic Organizer**
- **Band Baritone Section Leader:** Preformed at events such as Choirfest, Global IB ceremony, and Pride of Abu Dhabi awards.

VOULENTER WORK

- **Laos:** Helped build a town house and improve the general infrastructure for an impoverished village in Laos - 2018
- **Sri Lanka:** Helped improve rain water harvesting systems and build wells to a poverty-stricken village with limited access to clean drinking water.- 2019

Relevant Skills Gained Through Experience: Leadership, organizational, technical, communication, teamwork, data analysis, time-management