Andy Mannikum

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Profile

As a current Bachelor of Engineering student specialising in Mechatronics at the University of Glasgow, I am a highly motivated and enthusiastic individual with a deep passion for engineering and design. As an emerging engineer, I am eager to expand my knowledge and skills in the years ahead.

Education

University of Glasgow 09/2023 – 05/2024
BEng Mechatronics
Year 2 GPA: 14.7

University of Glasgow 09/2022 – 05/2023
BEng Mechatronics
Year 1 Gpa: 15.75

Royal College of Port Louis 01/2021 – 11/2021
Cambridge International Examinations (CIE) - Higher School Certificate
Main Subjects: Physics (A), Design and communication (A), Mathematics (A*)

Royal College of Port Louis 01/2017 – 11/2017
School Certificate
Subjects: Physics, Chemistry, Mathematics, Additional Mathematics, Design and Communication, English, French, Accounts

Professional Experience

RT Knits Ltd 08/2025 – 09/2025
Industrial Automation Intern Mauritius

- Assisted in the design, installation, and troubleshooting of automated production systems in a textile manufacturing environment.
- Supported integration of PLCs, sensors, and actuators to improve efficiency and reduce downtime.
- Participated in preventive maintenance and calibration of automation equipment.
- Analyzed production processes and proposed improvements to enhance throughput and quality.
- Collaborated with engineers and technicians on real-world industrial automation projects.

Sparrow Distribution Co Ltd 06/2024 – 08/2024
Industrial Automation Intern Mauritius

- Assisted in the operation, maintenance, and troubleshooting of mechanical and robotic machines used in paper bag production.
- Gained hands-on experience with automated packaging systems and conveyor mechanisms.
- Observed and contributed to quality control processes to ensure efficient production output.

- Assisted engineers in machine setup, calibration, and preventive maintenance to minimize downtime.
- Learned about industrial automation, sensors, and robotic arms used in high-speed packaging.
- Collaborated with the production team to optimize workflow and improve efficiency.

Projects

Project Freeheart 01/2024 – 03/2024

Year 2

Built an embedded heart rate monitor based on Photoplethysmography. The device was developed with Mbed OS (C++) on an NXP KL25Z microcontroller. Additionally, Python was employed to model and simulate the processing of data samples on a PC.

Project Lift (Elevator) 09/2022 – 12/2022

Year 1

Designed and built a functional elevator/lift, equipped with floor-level buttons and indicators displaying the lift car's location. Incorporated interior buttons for selecting the desired destination floor. The project utilized a metal construction set and involved programming a microcontroller linked to printed circuit boards (PCBs) featuring various switches and indicators.

Skills

Coding Languages

- Python
- C
- C++

MATLAB Onramp, MathWorks

CAD: FUSION 360 (Part Modelling)

AutoCAD

Interests

Regularly play football with friends and exercise to keep fit |

Passionate about cooking and exploring new dishes |

Enthusiastic hiker with a love for outdoor adventures

Languages

English

- Fluent, with strong oral and written communication skills developed through professional and academic experiences

French

- Fluent, with comprehensive ability to read, write, and speak, supported by extensive exposure to French- speaking environments

Hindi

- Fluent, with comprehensive ability to read, write, and speak