

# CAYDEN M. THESEIRA

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## EDUCATION

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### Nanyang Polytechnic (NYP) — Diploma in Electronic & Computer Engineering 2023 – Present

- Cumulative GPA: 3.99
- Director's List for 3 consecutive semesters
- Edusave Bursary Award: 2024

### Montfort Secondary School 2019 – 2022

- GCE 'O' Levels: Net L1R4 – 12
- Edusave Good Progress Award: 2019
- Edusave Bursary Award: 2022

## EXPERIENCE

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### IoT Smart Bus Stop 2024 – 2025

Distinction grade project nominated for school showcase recognition and TechNexus 2025, an academic showcase at NYP – 2nd Place Year 2 Category, 1st Place Most Popular

- Led a team of four in developing a prototype of bus stop with smart, safe, and sustainable features
- Utilised four BeagleBone® Black Wireless boards, sensors, a web server, and a dashboard
- Integrated hardware and software systems through Python, JavaScript, Node.js, SQL, and HTML/CSS, incorporating external APIs and designing visually engaging user interfaces
- Developed proficiency in Blender for creating 3D mock-ups and renderings
- Presented to a panel of 5 and engaged in Q&A

### Drawing Application with WinForms (Independent Project) 2024

- Designed and implemented a feature-rich, user-friendly drawing application using WinForms

### Automatic Shutting System 2023

1st Place – TechNexus 2024, Year 1 Category; featured by M5Stack Company on their LinkedIn

- Led a team of three to develop an automated closing door system for refrigeration units using M5Stacks and sensors to enable sustainable usage
- Used Tinkercad for 3D mock-up for planning

### Morse Code Translator (Independent Project) 2023

- Built an interactive system using Arduino Uno and servos to control a letter wheel with LED and buzzer feedback

## EXTRACURRICULAR ACTIVITIES

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### Student Mentor Programme (NYP) 2024

- Provided guidance to a class of 20 incoming students on academic and extracurricular pursuits

### World Robot Games 2024

- Tour Guide: Led a tour for over 20 international participants, mostly students, showcasing the engineering block, facilities, and projects; developed inter-cultural competence
- Game Referee: Managed and officiated games, ensuring adherence to rules and fair play

### Section Leader, Military Band CCA (Montfort Secondary School) 2021 - 2022

- Led and collaborated with a team of 30; achieved Singapore Youth Festival 2021's Accomplishment award

## SKILLS

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**Programming** (Python, JavaScript, HTML/CSS, C#, C); **PCB Design** (Autodesk Eagle); **Practical Skills** (Soldering); **Databases** (SQL - Basic); **Software** (Microsoft Office Suite); **Design** (Photoshop, Blender, Video Editing - Proficient)

## LANGUAGES

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**English** (Native Speaker), **Mandarin** (Working Proficiency)