# CAYDEN M. THESEIRA

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## EDUCATION

**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

**IoT Smart Bus Stop**  **2024 – Present**
Distinction-grade project; NYP top 5 nominee after internal pitch for LHL IDM SNA 2025 (Shortlist pending)
- 2nd Place (Year 2) and 1st Place (Most Popular) at TechNexus 2025, NYP's annual academic showcase; selected to be displayed at NYP's Engineering Block
- 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

**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 on LinkedIn; selected for school showcase display
- Led a team of three to develop an automated closing door system for refrigeration units using M5Stacks and sensors to promote energy efficiency
- 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

**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

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

## LANGUAGES

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