

CAYDEN M. THESEIRA

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EDUCATION

Nanyang Polytechnic (NYP) — Diploma in Electronic & Computer Engineering 2023 – 2026

- 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

WORK EXPERIENCE

Computer Engineering Intern (Micron Technology) 2025 – 2026

- Assisted in the development and testing of memory solutions for embedded systems
- Designed automated scripts in Python to streamline performance diagnostics for NAND products
- Gained hands-on experience with PCB testing tools and debugging techniques

PERSONAL PROJECTS

IoT Smart Bus Stop (Final Year Project) 2025 – 2026

Distinction grade project nominated for school showcase recognition and TechNexus 2026, an academic showcase at NYP

- Led a team of four in developing a prototype of a 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
- Created 3D mock-ups with Blender and renderings; presented to a panel of 5 and engaged in Q&A

Automatic Shutting System 2023

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

- Led a team to develop an automated refrigeration door system using M5Stacks and sensors for sustainability
- Used Tinkercad for 3D mock-up for planning

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 intercultural 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); **Databases** (SQL - Basic); **Software** (Microsoft Office Suite); **Design** (Photoshop, Blender)

LANGUAGES

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

HOBBIES & INTERESTS

DIY Electronics

Building and tinkering with old components to enhance hands-on skills

3D Design and Rendering

Creating mock-ups, visuals, and animations using Blender

IoT Prototyping

Experimenting with microcontrollers like Arduino and Raspberry Pi

Photography

Capturing aesthetically pleasing shots with a phone, focusing on natural composition and minimal edits

REFERENCE

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