

CAYDEN M. THESEIRA

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EDUCATION

Nanyang Polytechnic (NYP) — Diploma in Electronic & Computer Engineering	2023 – 2026
<ul style="list-style-type: none">Cumulative GPA: 3.99Director's List for 3 consecutive semestersEdusave Bursary Award: 2024	
Montfort Secondary School	2019 – 2022
<ul style="list-style-type: none">GCE 'O' Levels: Net L1R4 – 12Edusave Good Progress Award: 2019Edusave Bursary Award: 2022	

WORK EXPERIENCE

Computer Engineering Intern (Micron Technology)	2025 - 2026
<ul style="list-style-type: none">Assisted in the development and testing of memory solutions for embedded systemsDesigned automated scripts in Python to streamline performance diagnostics for NAND productsGained hands-on experience with PCB testing tools and debugging techniques	

PERSONAL PROJECTS

IoT Smart Bus Stop (Final Year Project)	2025 - 2026
<u>Distinction grade project nominated for school showcase recognition and TechNexus 2026, an academic showcase at NYP</u>	
<ul style="list-style-type: none">Led a team of four in developing a prototype of bus stop with smart, safe, and sustainable featuresUtilised four BeagleBone® Black Wireless boards, sensors, a web server, and a dashboardIntegrated hardware and software systems through Python, JavaScript, Node.js, SQL, and HTML/CSS, incorporating external APIs and designing visually engaging user interfacesCreated 3D mock-ups with Blender and renderings; presented to a panel of 5 and engaged in Q&A	
Automatic Shutting System	2023
<u>1st Place – TechNexus 2024, Year 1 Category; featured by M5Stack Company on their LinkedIn</u>	
<ul style="list-style-type: none">Led a team to develop an automated refrigeration door system using M5Stacks and sensors for sustainabilityUsed Tinkercad for 3D mock-up for planning	

EXTRACURRICULAR ACTIVITIES

Student Mentor Programme (NYP)	2024
<ul style="list-style-type: none">Provided guidance to a class of 20 incoming students on academic and extracurricular pursuits	
World Robot Games	2024
<ul style="list-style-type: none"><u>Tour Guide</u>: Led a tour for over 20 international participants, mostly students, showcasing the engineering block, facilities, and projects; developed inter-cultural competence<u>Game Referee</u>: Managed and officiated games, ensuring adherence to rules and fair play	
Section Leader, Military Band CCA (Montfort Secondary School)	2021 - 2022
<ul style="list-style-type: none">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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