

# CAYDEN M. THESEIRA

+65 9187 7075, [caydenmtheseira@outlook.com](mailto:caydenmtheseira@outlook.com)

## EDUCATION

---

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

## WORK EXPERIENCE

---

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

## PERSONAL PROJECTS

---

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

## EXTRACURRICULAR ACTIVITIES

---

<b>Student Mentor Programme (NYP)</b>	<b>2024</b>
<ul style="list-style-type: none"><li>Provided guidance to a class of 20 incoming students on academic and extracurricular pursuits</li></ul>	
<b>World Robot Games</b>	<b>2024</b>
<ul style="list-style-type: none"><li><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</li><li><u>Game Referee</u>: Managed and officiated games, ensuring adherence to rules and fair play</li></ul>	
<b>Section Leader, Military Band CCA (Montfort Secondary School)</b>	<b>2021 - 2022</b>
<ul style="list-style-type: none"><li>Led and collaborated with a team of 30; achieved Singapore Youth Festival 2021's Accomplishment award</li></ul>	

## 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

---

### Mr Martin Yong

Lecturer

School of Engineering, Nanyang Polytechnic

Email: [martin\\_yong@nyp.edu.sg](mailto:martin_yong@nyp.edu.sg)

### Mr Alex OH

Lecturer

School of Engineering, Nanyang Polytechnic

Email: [alex\\_oh@nyp.edu.sg](mailto:alex_oh@nyp.edu.sg)

### Mr Weizhong TOH

Course Manager

School of Engineering, Nanyang Polytechnic

Email: [toh\\_weizhong@nyp.edu.sg](mailto:toh_weizhong@nyp.edu.sg)

### Mr Lucas Hofer

Senior Systems Engineer

Micron Technology

Email: [lucas\\_hofer@micron.sg](mailto:lucas_hofer@micron.sg)