SUTD · CLASS OF 2029

Cassidy Thng

Design engineer · Film photographer · Teacher

thngcassidy@gmail.com
cassidythng.me
linkedin.com/in/cassidy-thng-0378a923a
instagram.com/cassidy.films

PORTFOLIO

PROFILE

Engineering Systems & Design undergraduate at SUTD on the Business Analytics & Finance track. I build things that work, explain them so they make sense, and photograph the moments in between.

EXPERIENCE

Technical Intern
Sep 2026 – now

Digital Church Office (DCO), Singapore · myCatholicSG parish app

React · Vite · Firebase · Node.js · Postman · Vitest · Playwright · GitHub Actions

- **Release QA:** test developers' pull requests locally before release; covered 10+ features, from room and SEEDs sacrament bookings to CATCH catechism timeslots.
- **SingPass:** tested an 84-file SingPass change end to end: consent scopes, the verified badge, NRIC masking, and child and sponsored-child records.
- **Test data & APIs:** seed a private Firebase project with edge cases (e.g. clashing bookings) via **Node.js** scripts; confirm fixes on the API in **Postman**.
- **Regression checks:** verified fixes for password-reset loops, login race conditions and security-audit upgrades, plus a new CATCH audit trail and its CSV export.
- **GovTech:** helped prepare SingPass and Myinfo approval submissions for 20 data fields, so verified records can pre-fill sacrament and catechism forms.
- **FIAT: Catholic Hackathon 2026:** organised a weekend hackathon of 80 participants, 16 teams, 12 mentors tackling real problems from four church organisations.

Essay Marker
Jun 2026 – now

Writers' Guild Learning Centre · remote

- Grade about 110 essays a month against set criteria, with actionable feedback.

Intern
Jun – Jul 2025

Fraternitas, St Mary of the Angels

- Grew sign-ups by 60% via Instagram, Telegram and *Chill Out with the Friars* posters.
- Promoted the Franciscan mission trip to Indonesia and the Sequela Christi pilgrimage to Rome; facilitated weekly Lectio sessions.

Teacher & Private Tutor
2024 – now

SGEducators Tuition Centre · freelance

- Helped 3–4 students rise from C/D to A/B grades.

Freelance Photographer
2020 – now

Film and digital

- Shot 2 weddings and 5–7 retreats and events, including the Catholic Pitch mixer.

SELECTED PROJECTS · SUTD

SpeakEasy
Assistive speech wearable · 2026

Raspberry Pi wearable that speaks for people with speech loss. 80% accuracy.

Physical World 1D Challenge
Mechanical design · 2025

Autonomous vehicle carrying a 200 g load over an obstacle course.

Design Computation
Rhino + Grasshopper · 2026

Parametric shell and printed Voronoi forms. Grade A–.

Cannon & Projectile Challenge
Design Thinking Project I · 2025

Designed and calibrated a launcher to hit targets. 1st in cohort.

Life Cycle Analysis
Science for a Sustainable World · 2026

LCA of a badminton racket in Granta EduPack, then a lower-carbon redesign.

Domus Orationis
Spatial Design World · 2026

A house of prayer for the terraces of Mù Cang Chải, 3D-printed.



EDUCATION

Singapore University of Technology and Design
B.Eng. Engineering Systems & Design, Business Analytics & Finance track
2025 – 2029

Catholic Junior College
GCE A-Levels
2020 – 2021

St. Patrick's School
GCE O-Levels
2016 – 2019

LEADERSHIP

House Secretary
Mythos, SUTD Residential College

Publicity Lead
IEEE, SUTD

Tech Lead
IES, SUTD

SKILLS

ENGINEERING & CODE

Rhino · Grasshopper · Onshape · 3D printing · React · Firebase · Node.js · Postman · Git & GitHub · Python · HTML · Excel · Granta EduPack · Raspberry Pi

DESIGN & MEDIA

Photoshop · Lightroom · Illustrator · Canva · Film photography

LANGUAGES

English · Mandarin · Hokkien