



Pan Ziyue

Email: panziyue0025@gmail.com (personal)

Website: <https://d3lta-v.github.io>

LinkedIn - <https://www.linkedin.com/in/panziyue/>

Education

SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN - BACHELOR OF ENGINEERING (ENGINEERING PRODUCT DEVELOPMENT), 2026

- ▶ Computer Engineering specialisation, Double Minor in Computer Science and Digital Humanities
- ▶ GPA 4.18/5.0, SUTD Global Distinguished Scholarship Holder
- ▶ Expected Date of Graduation: April 2026

SINGAPORE POLYTECHNIC - DIPLOMA IN COMPUTER ENGINEERING, 2019

- ▶ Diploma in Computer Engineering - Silver Medalist
- ▶ GPA 3.965/4.0, Director's Honour Roll AY2016/17, AY2017/18
- ▶ Founding Vice President of SP Maker's Club

Work Experiences

COFOUNDER, FOURIER INDUSTRIES (STARTUP) | [HTTPS://FOURIER.INDUSTRIES](https://fourierindustries.com) 2013 – PRESENT

Co-founded a startup company during secondary school with several of my schoolmates developing apps for the school, which later expanded to embedded hardware design for education.

- ▶ Developed in-house mobile applications for the school from 2013 to 2015
- ▶ Developed the SPEEduino, a modular IoT-enabled AVR+ESP8266 microcontroller platform for Singapore Polytechnic, which won a tender for 500 pieces in 2017
- ▶ Developed the SSTuino (2018-2021) and [SSTuino II](#) (2022-present), an educational IoT-capable microcontroller board targeting secondary schools

INTERN, EARTH OBSERVATORY OF SINGAPORE, NANYANG TECHNOLOGICAL UNIVERSITY | 2018-2019

Interned at the Earth Observatory of Singapore in NTU for 22 weeks.

- ▶ Assisting in the consolidation and stabilisation of the Microsoft Azure port of the Hybrid Science Data System (HySDS), working in collaboration with NASA's Jet Propulsion Laboratory (JPL). HySDS is a highly scalable, hybrid cloud platform for scientific computation, with a particular focus on processing data from earth observation satellites.

INTERN, SATELLITE RESEARCH CENTRE, NANYANG TECHNOLOGICAL UNIVERSITY | 2018

Interned at the Satellite Research Centre (SaRC) in NTU for 6 weeks during the March-April semester break to gain a deeper understanding of micro/nanosatellite engineering.

- ▶ Developed the ORBITAL, a cross-platform desktop application written in Java to help highlight anomalies in satellite orbital data of the VELOX-II nanosatellite.

INTERN, BUUUK PTE. LTD. | [HTTPS://BUUUK.COM](https://buuuk.com) – 2016

Interned at buUuk Pte. Ltd. for half a month in February of 2016 to gain more experience about professional mobile development companies in Singapore, and aided in the development of one of their client projects.

Co-curricular Activities

SECRETARY, SUTD ELECTRIC VEHICLE CLUB | 2024 - PRESENT

- ▶ Keep and maintain club records, meetings minutes and ensure correctness of paperwork
- ▶ Develop embedded electronics and software for the EV Club's flagship project, the Electric Vehicle by Additive Manufacturing (EVAM)

VICE PRESIDENT, SP MAKERS' CLUB | 2017 – 2018

- ▶ Assist the club president in designing workshops and programs for club members as well as the general public
- ▶ Provide technical guidance and advice for club members

CHIEF TECHNOLOGY OFFICER, SST INC | [HTTPS://SSTINC.ORG](https://sstinc.org) – 2014-2015

CTO of SST INC, my secondary school's Infocomm Technology club, managing servers and educational technologies.

- ▶ Manages ICT assets of SST INC, such as virtual servers and club website
- ▶ Oversee training programs for club members
- ▶ Organise club events, such as the annual INCamp

Academic Projects

ELECTRIC VEHICLE BY ADDITIVE MANUFACTURING 1.0 (EVAM 1.0) | ELECTRONICS TEAM LEAD | 2024 - PRESENT

- ▶ Built and tested a redesigned vehicle electronics system, with the main aim of improving data transfer reliability and preventing accidental drop-out of individual nodes.
- ▶ Mentored fellow students on the team on electronics CAD design.

PROJECT MYNAH | TEAM MEMBER, AVIONICS | 2023 - PRESENT

- ▶ Built, debugged and tested commercially available amateur rocketry flight computers for use in the [Friends of Amateur Rocketry competition \(2023\)](#), including software and radio aspects. The Project Mynah team was awarded 3rd place in the competition.

NON-INDUSTRIAL DECOMPOSITION OF PLA PLASTICS | TEAM MEMBER | 2023

- ▶ Developed embedded RP2040 CircuitPython code for Internet-based data logging and Jupyter notebook based code for experimental data analysis. In addition, sun tracking analysis was completed using AGI Systems Tool Kit. Final report is available [here](#).

AIRBUS-SSTA HADR CHALLENGE | TEAM MEMBER | 2018

- ▶ Winner of the 2018 Airbus-SSTA Humanitarian Aid and Disaster Relief Challenge, organised by Airbus Defence & Space in collaboration with the Singapore Space and Technology Association. Tasked with developing an Android application that increases the efficiency and effectiveness of Humanitarian Assistance and Disaster Relief operations.