

CLTP15

My Experience at the CanSat Leader Training Program

Reflections, insights, and a vision for space education in Sarawak

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Faculty of Aerospace Engineering



MALAYSIA

LOCATION OF KUCHING, SARAWAK



Kuching, Sarawak

Kuching is the capital city of Sarawak, located on the island of Borneo, in East Malaysia.

Sarawak
MALAYSIA

PEOPLE • NATURE • OPPORTUNITIES

SPEAKER

A little about me

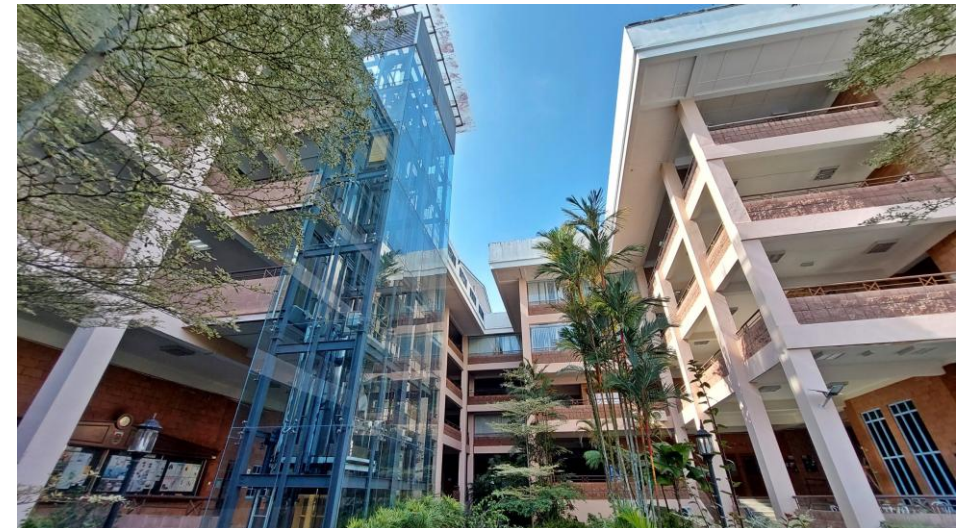
Present position Senior Lecturer, i-CATS

Qualification PhD in Mechanical (Aeronautics) Engineering,
Universiti Teknologi Malaysia

Specialization Aircraft / Aerospace Structures, Composite
Materials

Research interests Aeroelasticity, flutter, structural vibration, neural-
network modelling, satellite structure
optimization

i-CATS



PURPOSE

Why I joined CLTP15

To strengthen my competencies in satellite systems development, project leadership, and space technology innovation — translating technical knowledge into practical, sustainable aerospace initiatives.

Teaching & curriculum

Equip students with relevant knowledge and hands-on skills in advanced aerospace technologies.

Research & innovation

Build capabilities for sustainable, student-led satellite initiatives.

Partnerships

Forge links with industry, government agencies, and research institutions.

Regional impact

Grow the aerospace and space ecosystem in Sarawak and Malaysia.

What made CLTP15 valuable

1

End-to-end learning

Concept and system design through to build and operation

2

Theory meets practice

Lectures paired with practical, hands-on activities

3

Strong teaching support

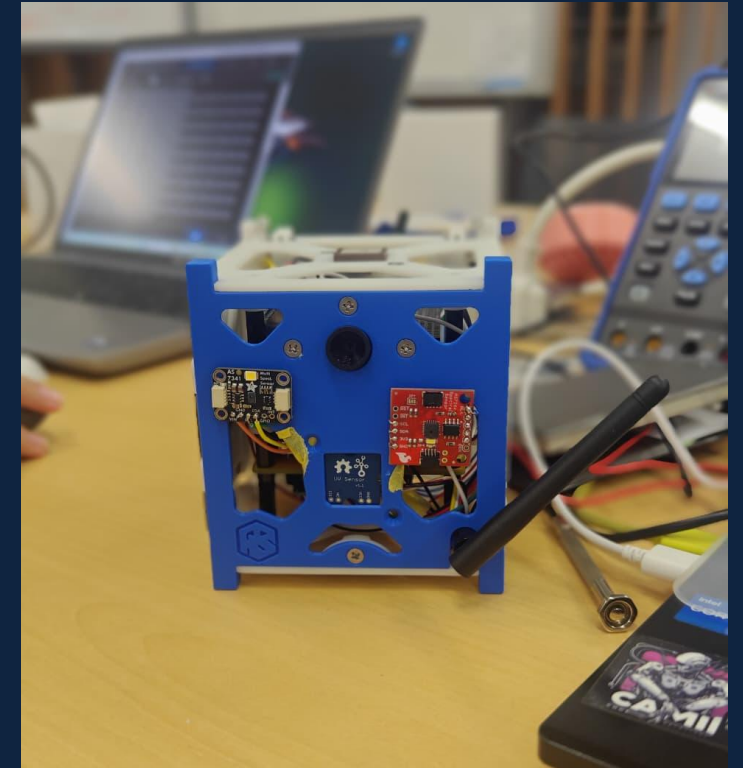
Clear sessions; TAs made hands-on work enjoyable

4

Global networking

Participants worldwide, experts, Japanese space industry

Two weeks of learning, building, and connecting



Hands-on training, classroom sessions, and international networking with fellow participants and experts.



My vision for the future

1

Space education for Sarawak

Introduce satellite and space-technology training — for students, youth, academics, engineers, and industry.

2

A strong collaborative network

Turn CLTP15 relationships into joint research, knowledge exchange, and capacity-building programmes.

3

A UNISEC student chapter in Sarawak

Give students exposure through projects, workshops, and competitions in satellite development.

4

A sustainable space ecosystem

Connect universities, industry, government, and research institutions to grow local talent and capability.

A message to future participants

Come with an open mind

Learn from experts; welcome new perspectives

Step beyond your comfort zone

Expand your knowledge; stretch your skills

Make the most of two weeks

Build friendships and find future collaborators

Take the experience home

Train others and start projects that create impact

*“Come to CLTP15 ready to learn,
leave ready to make a difference.”*

Thank you

Dr. Nurul Zubaidah binti Zaki • i-CATS University College