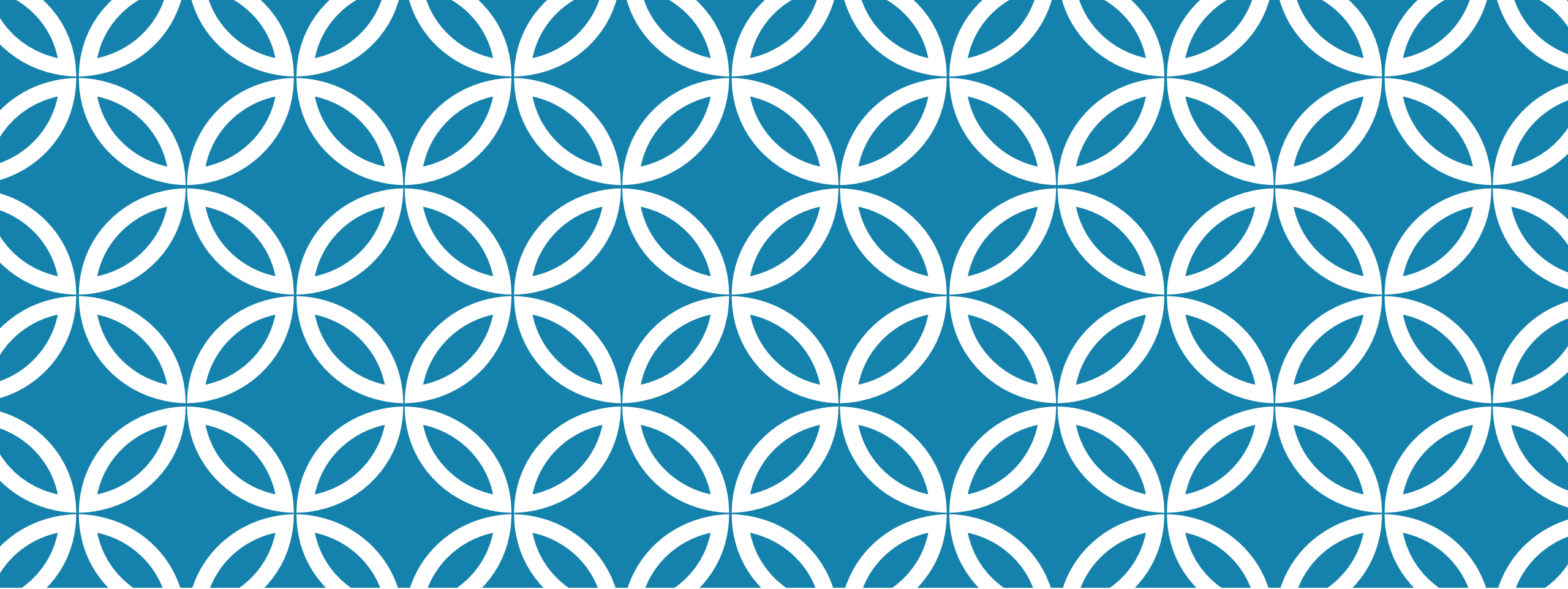


# **NORILMI AMILIA ISMAIL**

Lecturer at Universiti Sains  
**Malaysia**, School of Aerospace  
Engineering.

MSc in Space Mission Analysis and  
Design

PhD in Mechanical Engineering  
(Uni. Of Glasgow)



# RESEARCH ACTIVITIES





# MYSAT

MALAYSIA YOUTH SATELLITE



IN COLLABORATION WITH:



## MISSION

- To measure **electron density** in E-layer of ionosphere
- To develop **university capabilities** in developing Nano-satellite
- To inspire and prepare **future space-professionals** by providing students with practical experience in real space project.

## MASS

Total **1.218 kg**  
Dimension **10 x 10 x 10 cm**

## MISSION LIFETIME

Min **6 months**  
Max **1 year**

## ORBIT

Low Earth Orbit  
Altitude **420 km**  
Inclination **51.6 deg**

## DEPLOYER

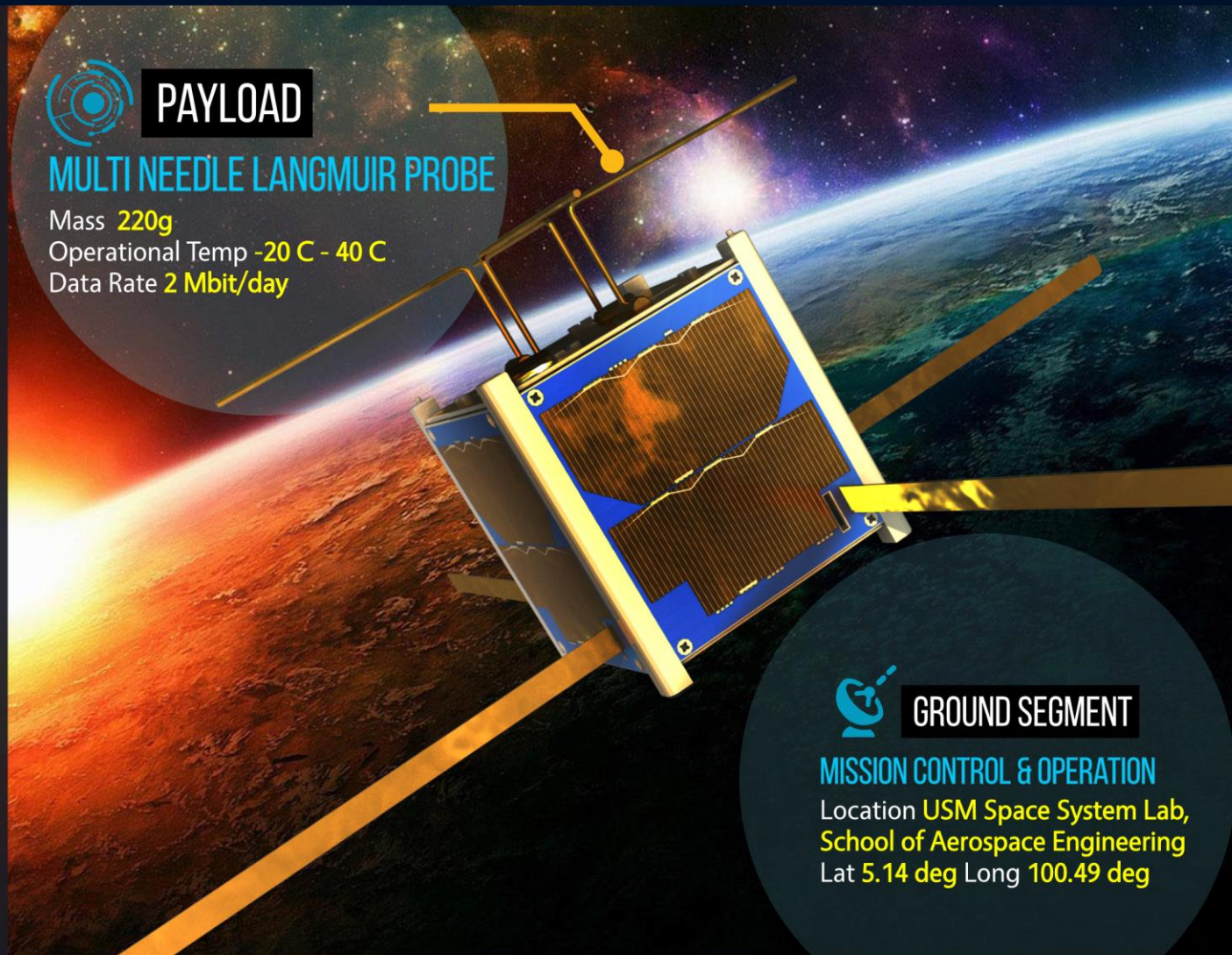
Deploy in ISS using JEM Remote Manipulator System using **JEM Small Satellite Orbital Deployer (J-SSOD)** in KIBO module.



## PAYLOAD

### MULTI NEEDLE LANGMUIR PROBE

Mass **220g**  
Operational Temp **-20 C - 40 C**  
Data Rate **2 Mbit/day**



## GROUND SEGMENT

### MISSION CONTROL & OPERATION

Location **USM Space System Lab, School of Aerospace Engineering**  
Lat **5.14 deg** Long **100.49 deg**



<http://usmssl.eng.usm.my/>



MYSat-Malaysia

USM SPACE SYSTEM LAB



# RESEARCH ACTIVITIES

- High Altitude Platform
- Space Farming
- Aeroacoustic of two way radio



# SPACE OUTREACH

