

NUS SEDS

National University of Singapore
Students for the Exploration and Development of Space



<http://nussededs.space>

t.me/nussededs • facebook.com/nussededs • instagram.com/nus_seds

STUDENTS FOR THE EXPLORATION AND DEVELOPMENT OF SPACE

- largest student-run space organisation
- non-profit
- promote space exploration and development
- projects, events and programmes
- alumni: Jeff Bezos, Steve Wozniak and Peter Diamandis



WE COME IN PEACE

- officially launched 20th July '19, 50th anniversary of Apollo 11
- as of Dec'19, nearly 70 members
- 2 event series
 - talks
 - workshops
- 2 engineering teams
 - remotely operated vehicles
 - autonomous vehicles



Vision

To be the **rallying youth force** that ushers in a **new space age** in **Singapore** and **South East Asia**

Mission

To **inspire and empower young people** in **NUS** and **beyond** to **participate and make an impact** in **space exploration**



Mission Control



RAMU VAIRAVAN

President



YEOH JUN KAI

Vice President



IAN WU LING EN

Outreach Team Lead



ANISHA NICOLE JOSEPH

Finance Lead



ASHWIN KUMAAR

Creative Lead



DEAN SU DI YANG

Outreach (external) Lead



YEOH JUN JIE

Events Manager



BENEDICT GOH

Secretary



ANUSHKA GAIKWAD

Project Manager (SubT
DARPA)



RACHIKET ARYA

Project Manager (New
Opportunity)



ARKA RAY

Space Policy Unit Lead



K MURUGES

Webmaster

NEW FRONTIERS

Talks • Free • Public • Pizzas* • Thursdays

NUS SEDS X AKSHAY GULATI

AUTONOMOUS RENDEZVOUS AND DOCKING OF SATELLITES

E2A Studio 2, Faculty of Engineering
Thursday, 5 September 2019
6.30 to 8.30 pm

NUS SEDS X AKSHAT DUBEY

LASER COMMUNICATIONS

E2A Studio 2, Faculty of Engineering (tentative)
Thursday, 12 September 2019
6.30 to 8.30 pm

NUS SEDS X PETER CECIL

GOOGLE EARTH ENGINE

E2A Studio 2, Faculty of Engineering
Thursday, 3 October 2019
6.30 to 8.30 pm

NUS SEDS X ROLAND TURNER

SATELLITE TRACKING FROM PORTABLE GROUND STATIONS

E2A Studio 2, Faculty of Engineering
Thursday, 19 September 2019
6.30 to 8.30 pm

NUS SEDS X KHENG MENG

JOURNEY TO BECOME A PRIVATE PILOT

E2A Studio 2, Faculty of Engineering
Thursday, 10 October 2019
6.30 to 8.30 pm

NUS SEDS X MARK LIM

SPACECRAFT PROPULSION SYSTEMS

E2A Studio 2, Faculty of Engineering
Thursday, 24 October 2019
6.30 to 8.30 pm

NUS SEDS X BIDUSHI BHATTACHARYA

SPACE ENTREPRENEURSHIP

E2A Studio 2, Faculty of Engineering
Thursday, 31 October 2019
6.30 to 8.30 pm

NUS SEDS X GALLASIA

CUBESAT MISSIONS HOW STUDENTS CAN PUSH FORWARD IN SPACE

The Hangar, i3 Building, NUS
Thursday, 30 January 2020
7:30 PM Onwards

*All majors are invited!
Refreshments provided from 7 PM onwards*



NEW HORIZONS

Workshops • Free • Public • Mondays*

NUS SEDS X AGI

INTRO TO STK

ASTROGATOR +
CONJUNCTION ANALYSIS
TOOL

MONDAY, 7 OCTOBER
6.30 TO 8.30 PM
NUS (LOCATION TBC)

SIGN UP
<https://bit.ly/2nPfOvi>

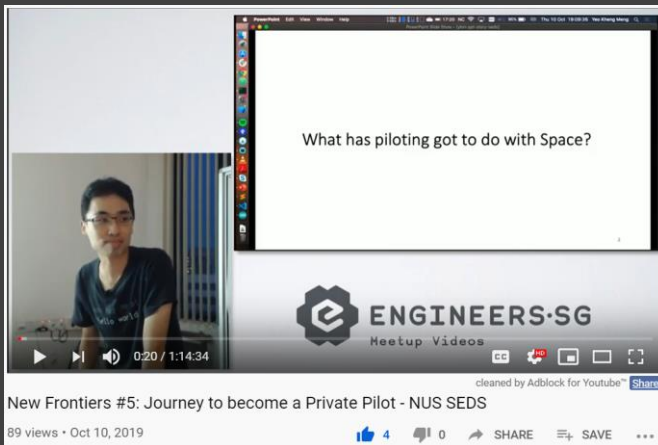
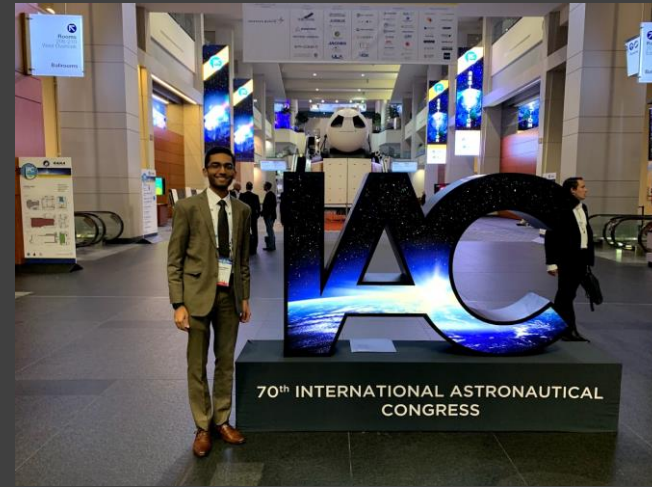
NUS SEDS X AGI

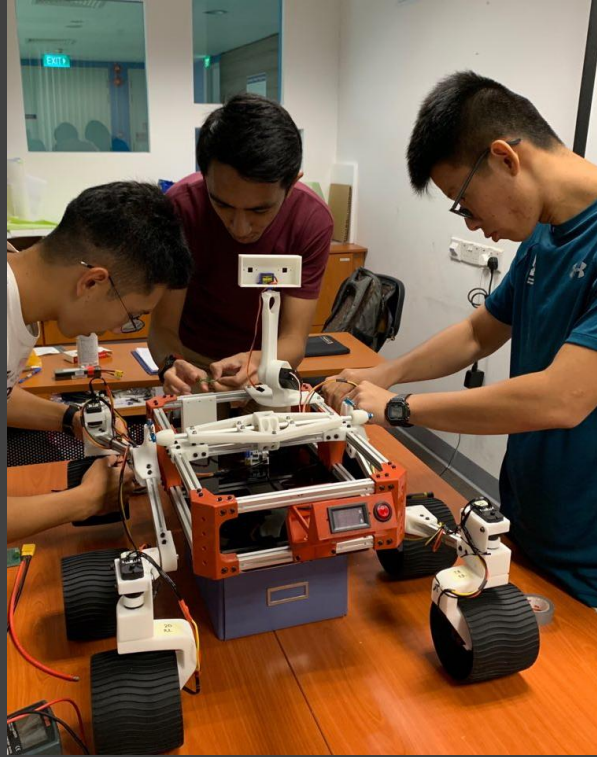
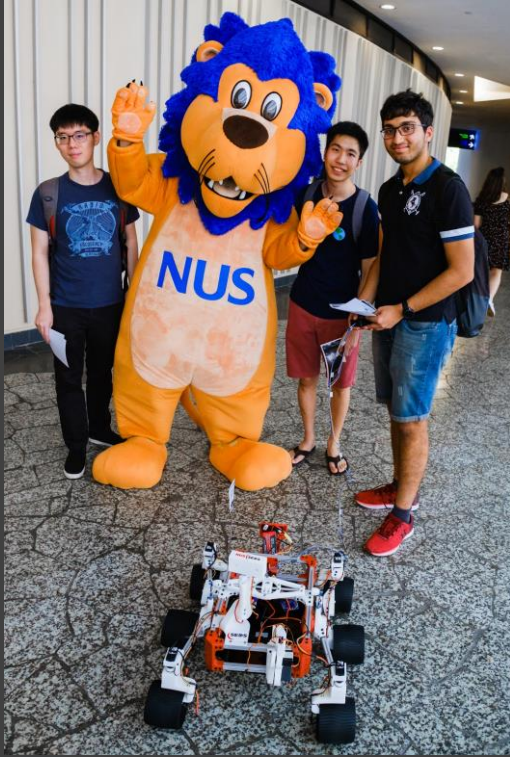
STK SATPRO

USING STK SATPRO
FOR CUBESAT
DESIGN

MONDAY, 14 OCTOBER
6.30 TO 8.30 PM
NUS UTOWN PLAZA SR1

OPEN TO PUBLIC AND STUDENTS
<https://bit.ly/3iQliVw>

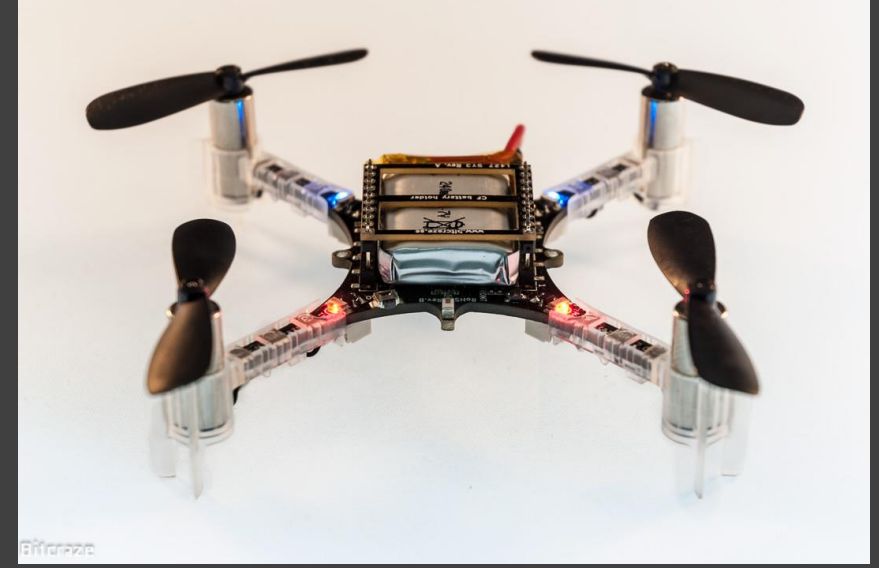
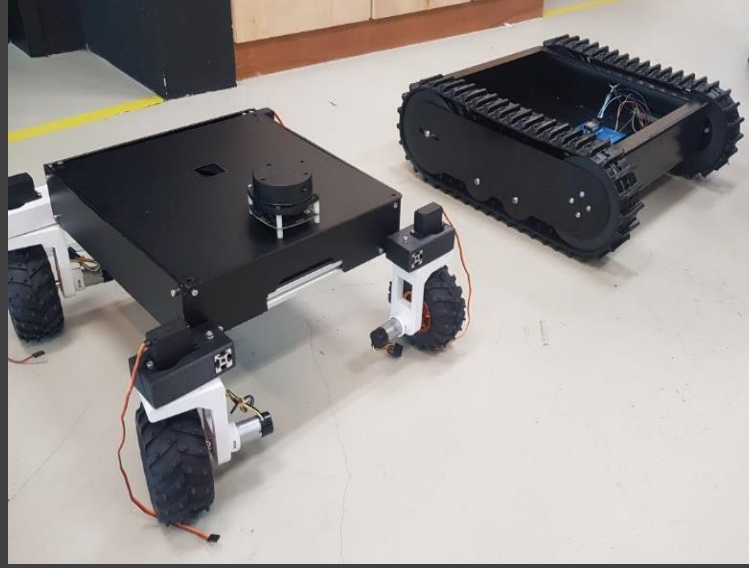




NUS ROVER TEAM

Developing next-generation
Mars rovers that will one day
work alongside human explorers in the field

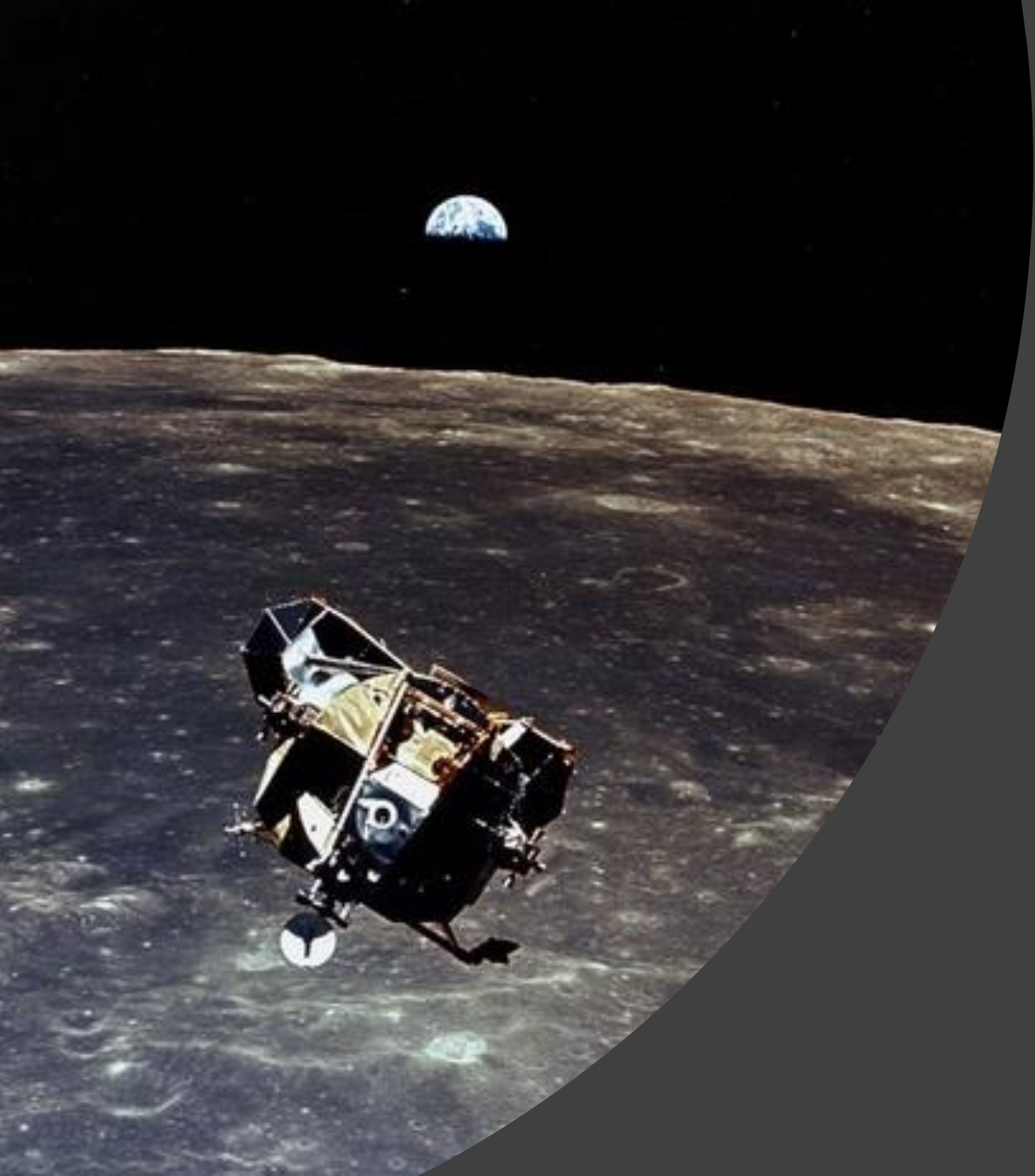
- University Rover Challenge
- New Spirit and New Opportunity
- Only team from South East Asia to have cleared URC's Preliminary Design Review
- Competing against Stanford, Cornell, IITs
- Next milestone: System Acceptance Review



DARPA SubT Team

Developing next-generation **robotic swarms** that can produce a **full 3D map of an underground space**

- DARPA SubTerraanean Challenge
- Multiple fully autonomous ground and aerial vehicles working in tandem
- One of 17 teams worldwide to have qualified for the Urban Circuit
- Competing against NASA, CMU, ETH Zurich
- Next milestone: Urban Circuit Systems challenge, Cave Circuit challenge



TAKING FLIGHT

Space Policy Unit

Spaceplane Team

Nanosatellite Team

Geospatial Research Unit

High Altitude Balloon Team

JOIN THE MISSION!

Anyone can join, regardless of faculty/year/experience!

Join to:

- **Participate** in activities and **learn** about the industry
- **Meet** other space enthusiasts
- **Hone** soft skills and **pickup** technical knowledge relevant for space industry
- **Initiate** your own space-related projects
- **Gain** access to resources exclusive to SEDS members
- **Attend** events and **network** with industry professionals
- **Contribute** to space exploration & development
- **Enjoy** what space has to offer and **be inspired!**



Sign up here

Only those who will risk going
too far can possibly find out
how far one can go.

TS Eliot



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Sign up here

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