

SPACE 101

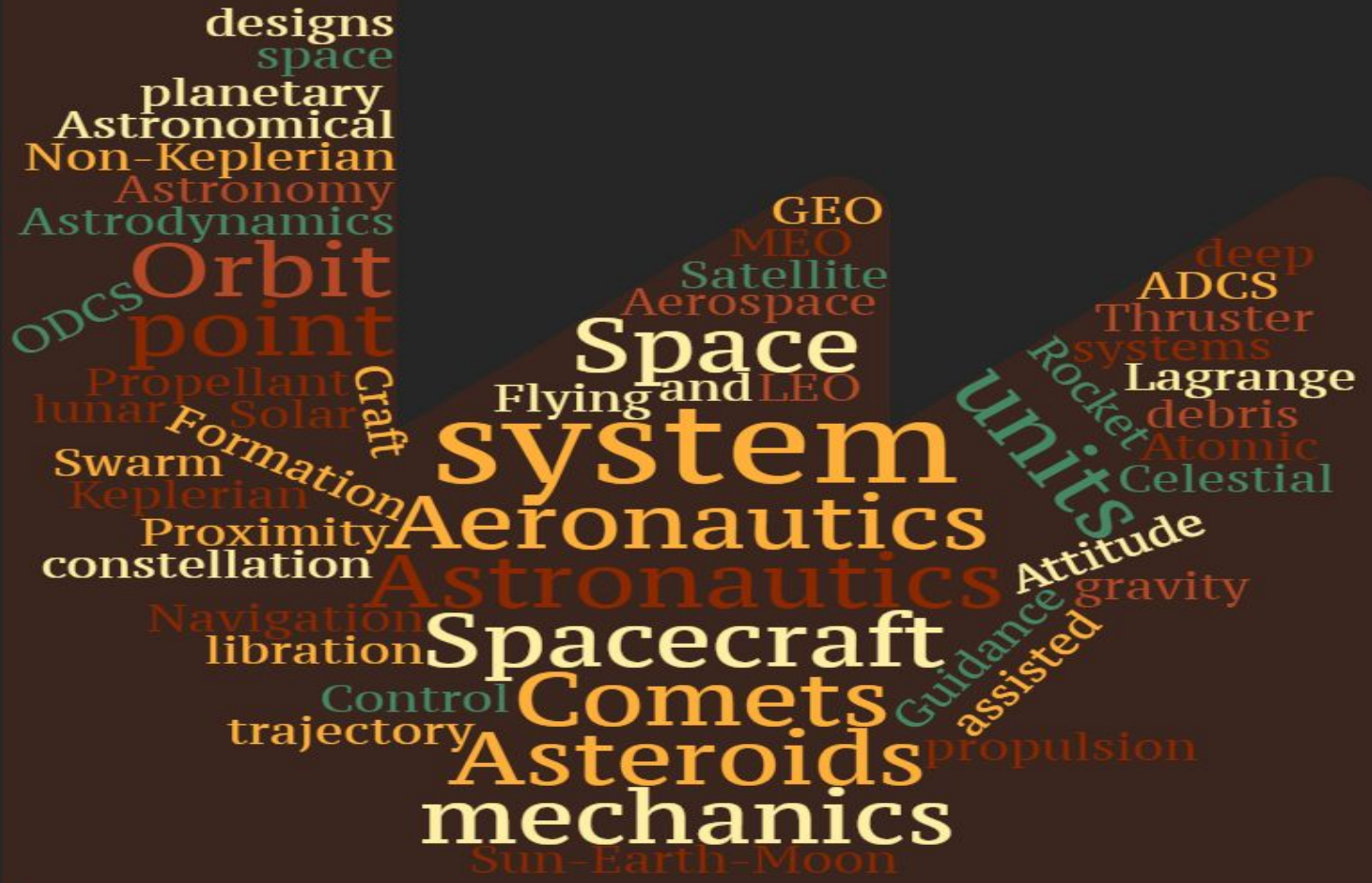


พีรวัฒน์ อาทิตย์ตั้ง

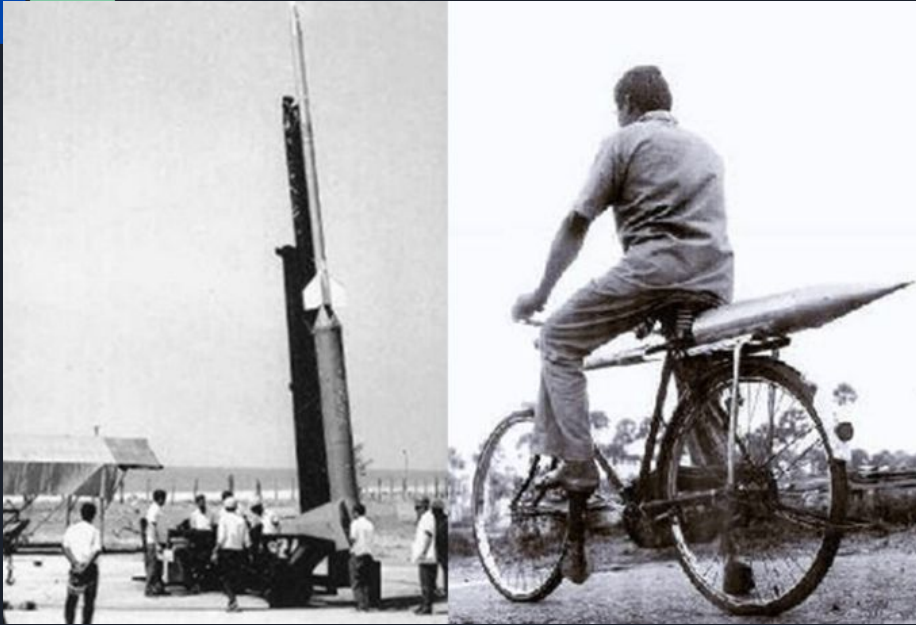
D.Eng Candidate - Aerospace Science and Technology (Space Technology Application)

School of Astronautics, Beihang University, Beijing, China

Research Direction: Orbital Dynamics and Control of Spacecraft



Outer space...เริ่มทำจากไหนดี?



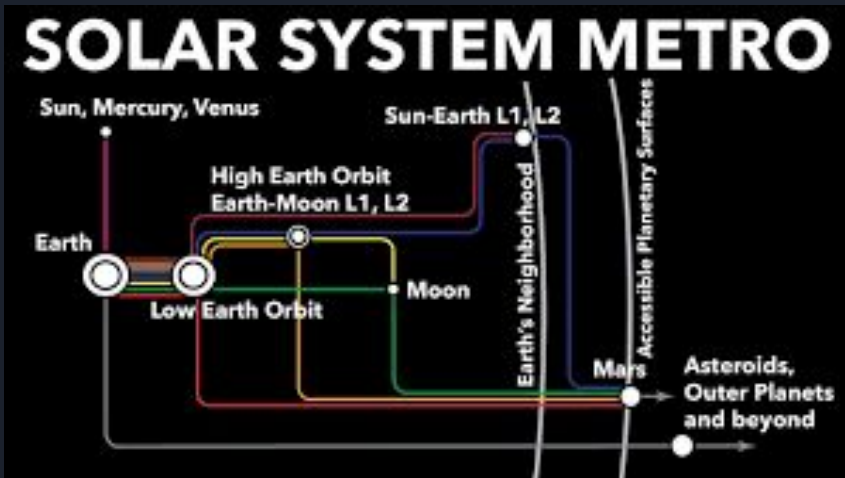
The first rocket in Indian was transported on a cycle, 1963.



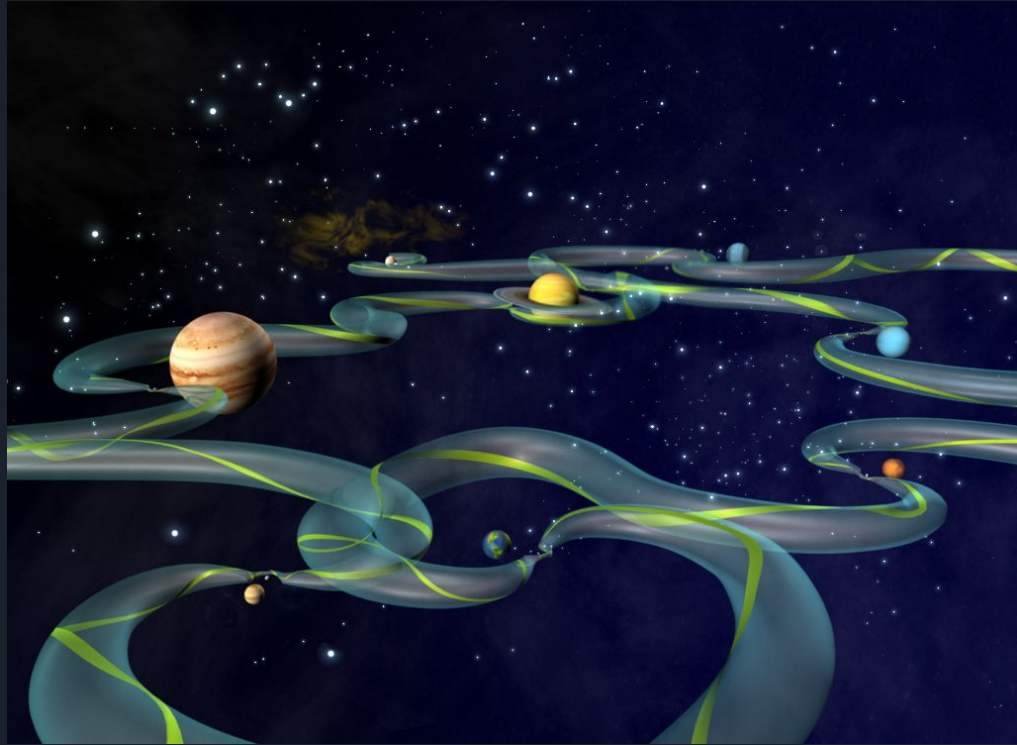
The second rocket, which was launched sometime later, was a little bigger and heavier and it was transported in a bullock cart for the lift off.

Milestone

NASA's Origins Program (1990s)



Ross Dynamics Lab at Virginia Tech
Prof. Shane Ross



A stylized example of one of the many, ever-changing routes along the ITN. Credit: NASA



留学北航，点亮梦想。
Study at Beihang, Light the dream.



北京航空航天大学
BEIHANG UNIVERSITY



宇航学院
SCHOOL OF ASTRONAUTICS

Beihang University (BUAA: 北京航空航天大学) (Beijing University of Aeronautics and Astronautics)

- ❑ **Leading University of Aeronautics and Astronautics in China (A+)**
 - ❑ **The university is part of Project 211, Project 985, and the Double First-Class Construction**
 - ❑ **The Seven Sons of National Defence**
- A+ : Instruments
 - A+ : Materials
 - A+ : Softwares



งานวิจัยที่สนใจ iResearch

Ph.D. Dissertation Title:

Robust Optimal Sliding Mode Control for Charge Spacecraft Formation Flying (BUAA), 2567

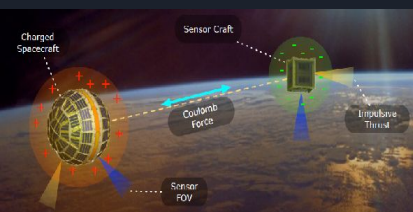
Master Thesis Title:

Attitude Control of Low-Earth-Orbit Satellites using Magnetic Actuators (MUT), 2553

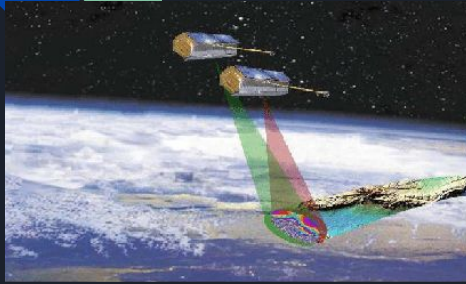
Bachelor Project:

Swing-Up Inverted Pendulum Control System (MUT), 2549

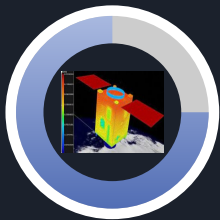
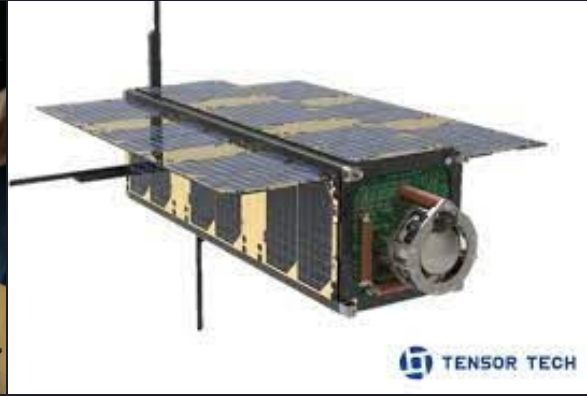
Guidance Navigation & Control (GN&C)



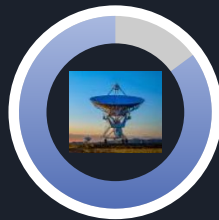
Satellite Subsystem



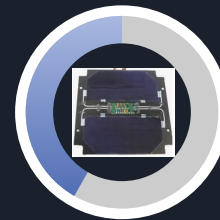
TanDEM-X satellite formation
Space borne radar remote sensing



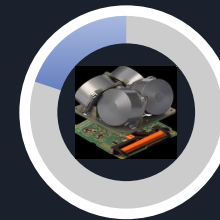
Structure & Thermal
Control



Telemetry, Tracking, and
Command (TT&C)



Electric Power
System (EPS)



Attitude Determination &
Control System (ADCS)

Onboard Data Handling
(OBDH)

Orbit Determination and
Control System (ODCS)

Thank you for your time!

**非常感谢
ขอบคุณครับ**



LB1703204(JO)皮亚瓦
特-805A



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