

# Current Plans for the UNISEC-Global activity: Korea

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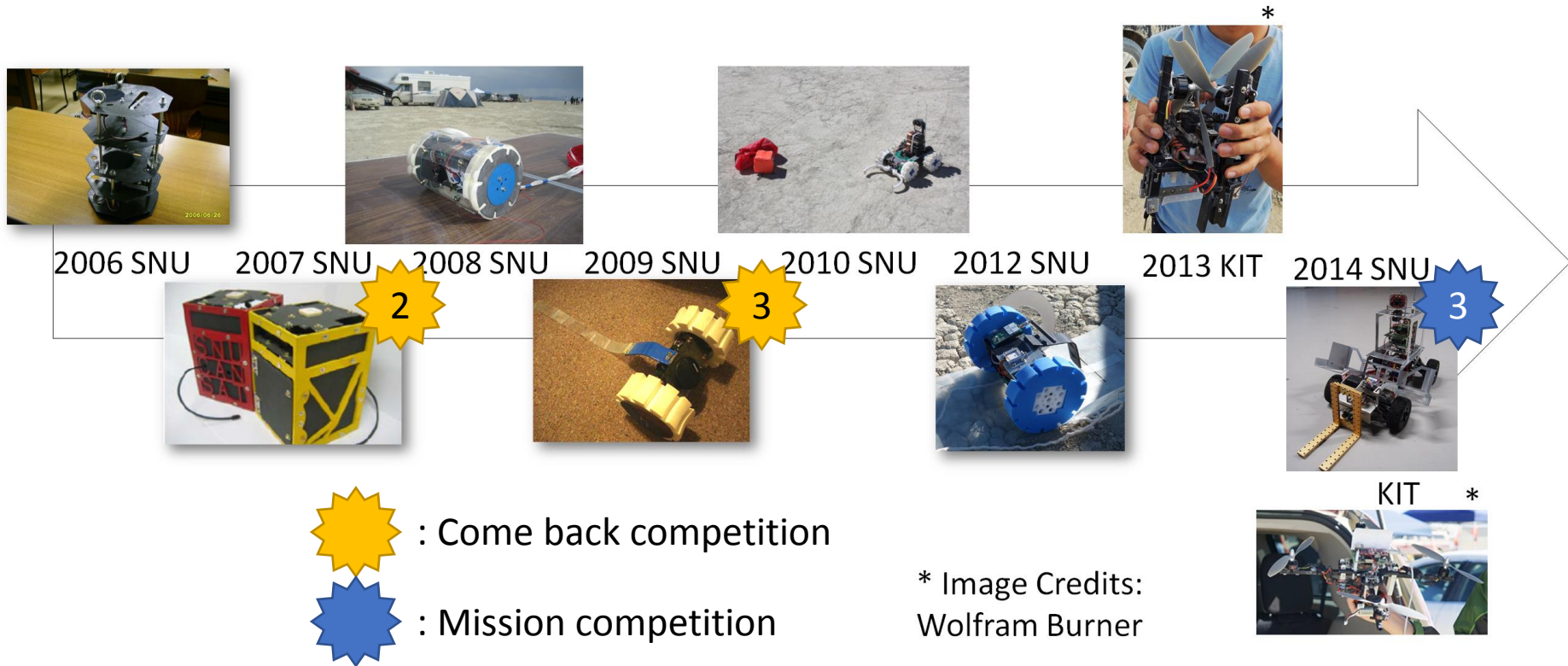


# Agenda

- CanSat Activity of Korea: A Glance
- Current CanSat Activities in Korea
- Approaching UNISEC-Global in Korea

# CanSat Activity of Korea: A Glance

ARLISS



# CubeSat Activity of Korea: A Glance

## CanSat Competition

Seulgi (Wisdom) : High School Students

Changjak (Creation) : Undergraduate Students

First Competition

2012.8.9

Second Competition

2013.8.16

Third Competition

2014.8.7

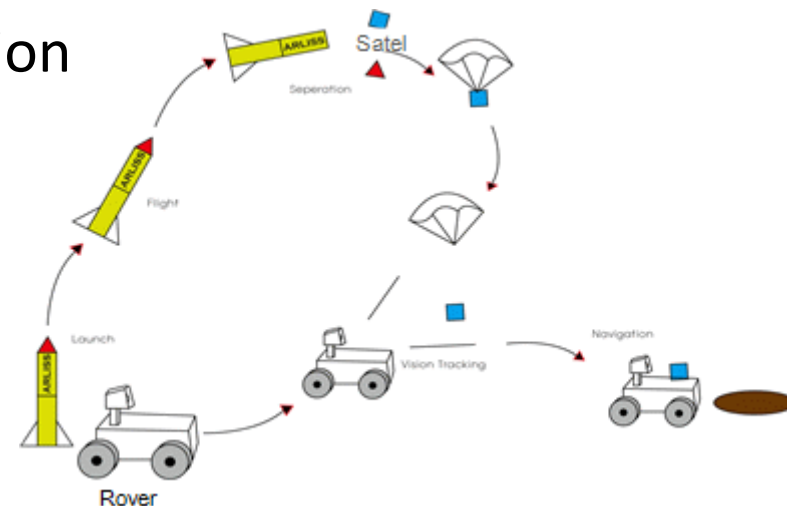
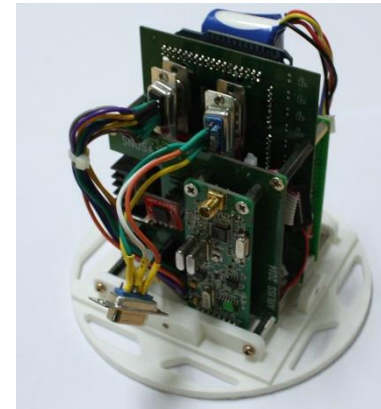




# Current CanSat Activities in Korea

- SNU ARLISS Team

- University: Seoul National University
- Participants: 10 Undergraduate Students
- Mission:
  - Simulation of a remote planet resupply mission
    - Rover-Supply rendezvous
    - Resupply scenario
- Funding: Korea Sanhak Foundation



# Current CanSat Activities in Korea



- SNU ARLISS Team

- Medium Altitude Heavylift Multirotor for CanSat/CubeSat Drop Test

- Rocket launch limitations
    - Helium crisis

-> Reusable drop test multirotor



Maximum thrust per rotor	3.2 kgf
Flight weight (Payload)	9.5 kg (4 kg)
Flight time	15 Minutes



# Current CanSat Activities in Korea



- CanSat Competition: Annual Event
  - Organization: SaTReC
  - Funding: Ministry of Science, ICT and Future Planning

	Seulgi	Changjak
Application submission	2014.05.09	
First Evaluation (Results)	2014.05.12~16 (5.17)	2014.05.12~16 (5.17)
	Maximum 20 teams	Maximum 20 teams
Online Education	2014.05.19~	
Second Evaluation	2014.06.20~27	2014.06.20~27
	Maximum 10 teams	Maximum 10 teams
Prior Education	2014.06.21	
Competition	2014.8.7~8	2014.8.7~8
Final Evaluation	2014.8.14	2014.8.14

\*CanSat Competition 2014 Schedule

# Current CanSat Activities in Korea



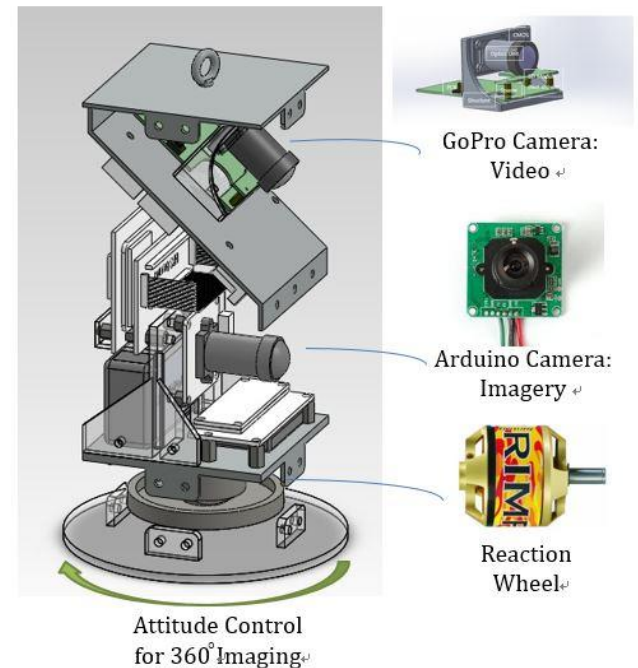
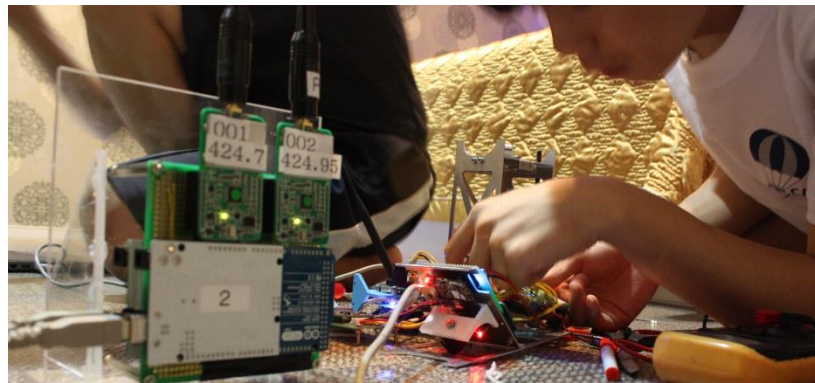
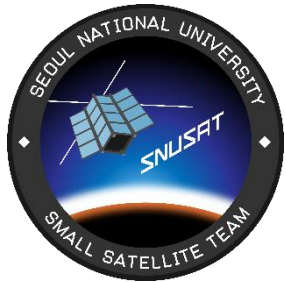
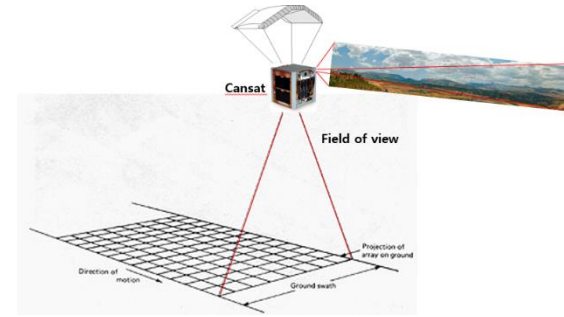
- CanSat Competition: Annual Event





# Current CanSat Activities in Korea

- CanSat Competition: SNU
  - University: Seoul National University
  - Participants: 3 Undergraduate Students
  - Mission:
    - Rescue CanSat
      - 360 degree search
      - Reaction wheel yaw control



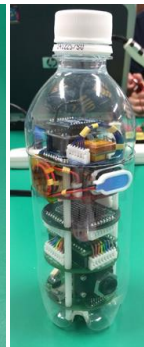
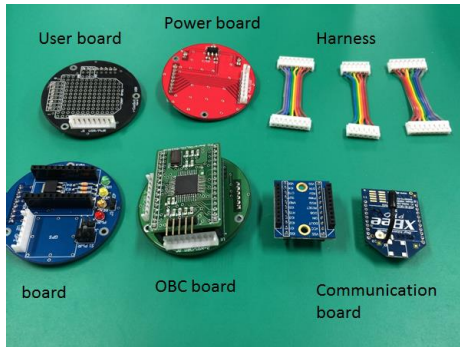
# Current CanSat Activities in Korea



HOKKAIDO  
UNIVERSITY



- Participation of CLTP5
  - To learn teaching ability of CanSat system
  - Location: Hokkaido, Japan  
(Hokkaido University & Uematsu Electric Co., Ltd.)



# Approaching UNISEC-Global in Korea

- How to gather up? The start is important
  - Currently many programs promote CanSat activities
  - Consortium for CanSat/CubeSat program will boost these activities
  - A joint CanSat/CubeSat program is always fascinating
    - Managing issues must be considered
  - Seminar for status exchange or a technical workshop
    - Student gathering
    - UNISON-Global: Korea
    - Discuss in detail on 'How to manage UNISON (UNISEC Student Organization)'
  - A colloquium funded by College of Engineering of SNU will fund small meetings for 'CubeSat Utilization Ideas and Joint Mission/Education Meeting'

# Approaching UNISEC-Global in Korea

- Continuity (Participating students) matters
  - As an effort following various competitions, each universities should focus on continuity
  - UNISEC-Global will help this continuity, and so will UNISEC-Global exist only with the continuity
  - SNU is putting effort to establish a foundations for undergraduate students to follow up the CanSat/CubeSat educational steps
    - Utilization of CanSat Kit aiming mid 2015
    - CanSat-CubeSat-Extended Research step
    - First try in SNU, then share and extend to other universities