

Exhibitor's Presentation

UNISEC-Global

Tomoyuki Yamasaki
The University of Tokyo
20.10.2016

UNISEC

(UNiversity Space Engineering Consortium)

UNISEC is a non-profitable organization to support practical space development activities in universities and colleges, such as small satellite and hybrid rockets, since 2002.

Over 30 Countries take part in the UNISEC-Global

UNISEC's aim

Human Resource Development

Technological Development

Outreach



CanSat

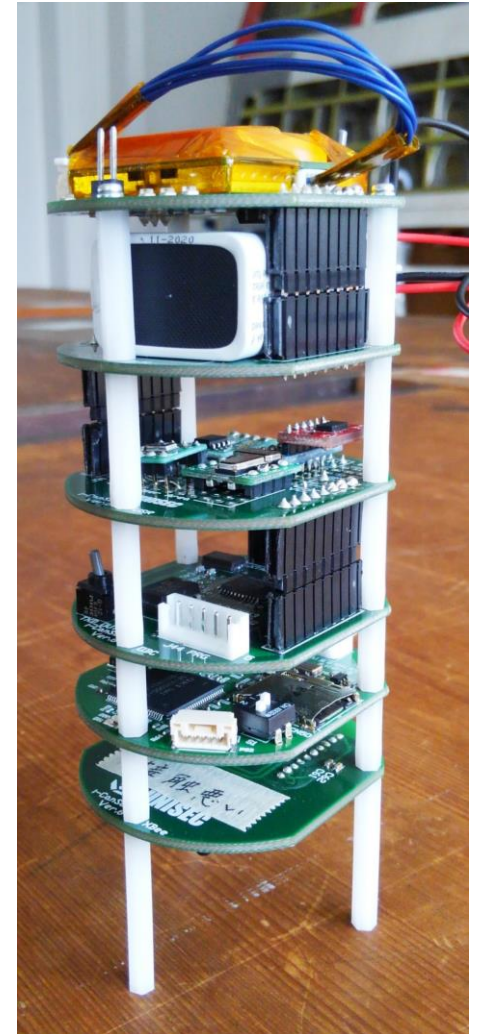
The idea of CanSat was purposed by Prof. Bob Twiggs in 1998. CanSat is used to teach space technology. It consists of microcomputer, ROM, battery, transmitter and some sensors.



Photo from facebook of UNISEC

i-CanSat

- Study tool used for CLTP, designed by Prof. Sahara
- Six layers that contain all the basic function of CANSAT
 - GPS, Communication system, Memory, Sensors, OBC
- Take a look at it at the UNISEC-Global Exhibition!!

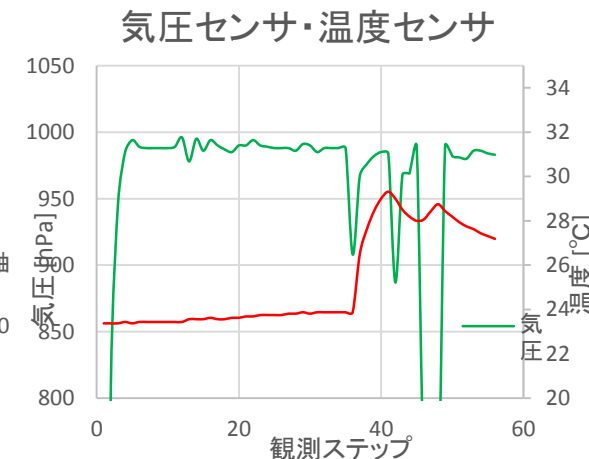
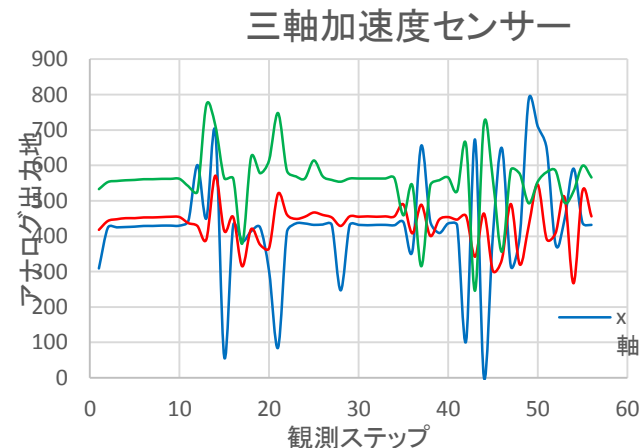
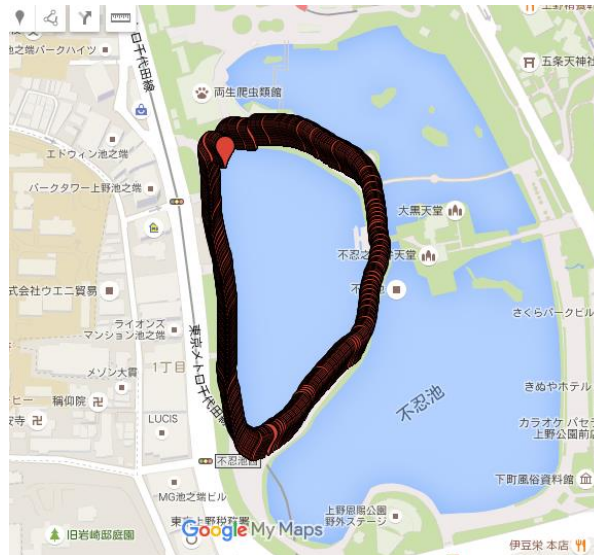


What i-CanSat Can Do

- Take photos
- Track GPS and store into log
- Take acceleration/gyro/thermo/pressure data and store it into log



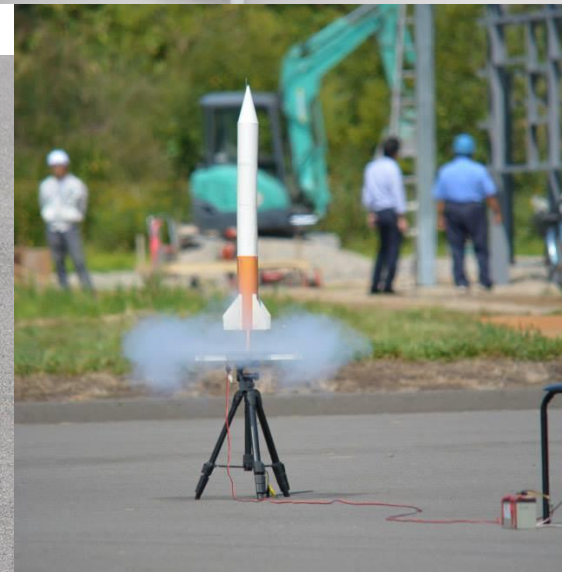
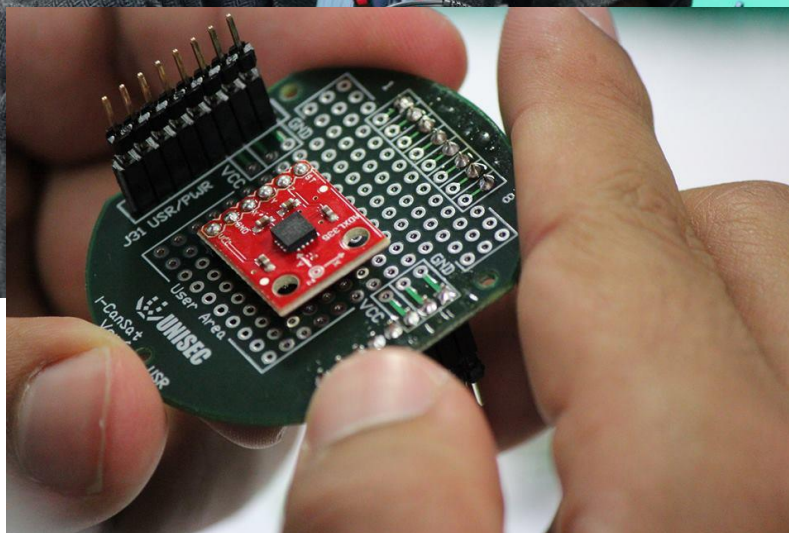
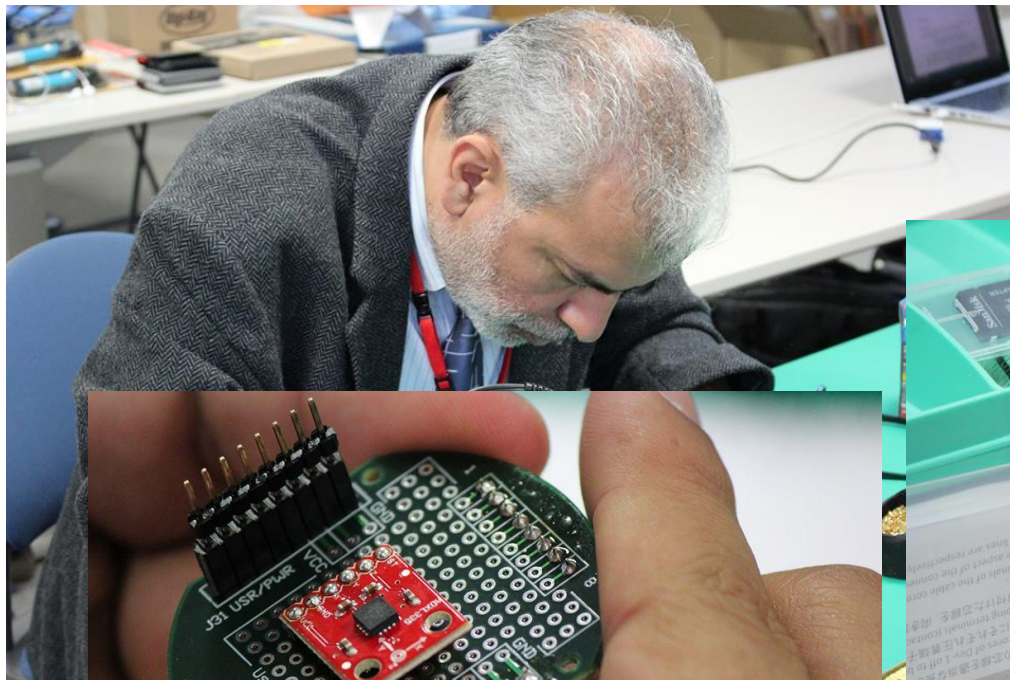
RXA 接続[1] Serial COM3 9600bps		
	A	
1	35.71286	1
2	35.71286	1
3	35.71286	1
4	35.71286	1
5	35.71286	1
6	35.71286	1
7	35.71286	1
8	35.71286	139.7689
9	35.71286	139.7689
10	35.71286	139.7689
11	35.71286	139.7689
12	35.71286	139.7689
13	35.71286	139.7689
14	35.71286	139.7689
15	35.71286	139.7689
16	35.71286	139.7689
17	35.71286	139.7689
18	35.71286	139.7689
19	35.71286	139.7689
GPS_LOG_2-28		



CLTP (CanSat Leader Training Program)

- CLTP invites many Professors/Ph.D.'s from around the world. They will learn CanSat and introduce them to their students.
 - CLTP 1 Wakayama University
 - CLTP 2 Nihon University
 - CLTP 3 Tokyo Metropolitan University
 - CLTP 4 Keio University
 - CLTP 5 Sep. 2014, Hokkaido University
 - CLTP 6 Sep. 2015, Hokkaido University
 - CLTP 7 Sep. 2016, Hokkaido University

CLTP 7



CTP (CanSat Training Program)

- Various other training program using i-CanSat has been held.
- Feb 2016, University of Tokyo
- March 2016, Muroran Institute of Technology
- April 2016, Australian National University
- May 2016, University of Tokyo
- July 2016, High school teachers

Feb 2016, University of Tokyo

- Four students from the University of Tokyo



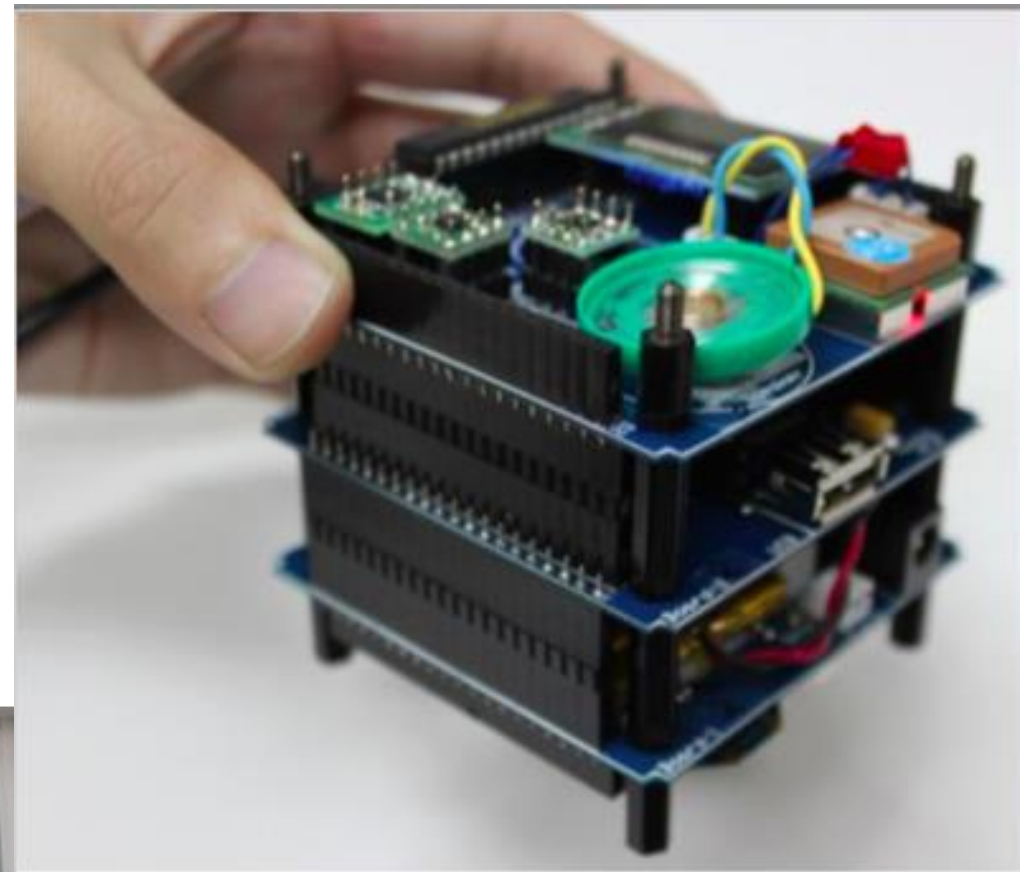
April 2016, Australian National University

- Three students and a Professor from ANU



HEPTA

- Developed by Prof. Yamazaki from Nihon University
- 7cm by 7cm by 7cm kit to build miniature “CubeSat”
 - Contains basic components of Cubesat (but this one does not go to space)
- Take a look at it at the UNISEC-Global Exhibition!!



The next CLTP

- The date for CLTP 8 has been decided!
- Date; September 7 to September 16, 2017
- Place; Nihon University (TOKYO!!)
- Fee; Free (but Accommodation/Flight is not included)
- Material; HEPTA-sat