Group #3
CanSat Hands-on Training Educations

Group Discussion

Third UNISEC-Global Meeting, July 4, 2015

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- Discussion topics

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Agenda

- Self introduction – 12:00 – 12:10
- Presentation of last CanSat Education WG outcomes 12:10–12:15
- Presentations by participants 12:15–13:00
- Break 13:00 – 13:10
- General discussion 13:10 – 14:45
- Concluding remarks 14:45 – 14:50
- Final presentation 14:50 –15:20

Group Photo

Members

- Hiraku Sakamoto, Tokyo Inst. Of Tech.
- Mohammed Khalil Ibrahim, Cairo Univ.
- Morne Roman, CPUT, South Africa
- Akifumi Koinuma, Univ. of Tokyo Metro.
- Yukiya Tanaka, Keio Univ.
- Miyu Sato, Univ. of Tokyo Metro.
- Masahiro Nakamura, Tokyo Univ. of Science

Key issue

- Current method lacks of mapping between Cansat & Satellite Systems – How we can reduce this gap?

CanSat Education (Student Learning Outcomes)

- Understand the satellite subsystems
- Study and implement SE/PM in a prescribed way
- Understand the importance of team work
- Programing of Micro-Controllers and interface with sensor and actuators
- Structural Design of CanSat
- Aerodynamic Design of Parachute
- Calculation of the power and mass budget.
- Design and Realizing PCBs
- How to use the design tools (Solid Modeling, Analysis software, …)

Best Practice

- Student motivations (competitions, …)
- Team work
- Fund raising skills