

Local Chapter Activity Report

at the Local Chapter Empowerment Meeting

Agfianto Eko Putra
Indonesia UNISEC Global PoC

History of Local Chapter Activities

Please put logo of your Local Chapter into the slide master.

Not established yet – or maybe 2023

Activities in the past (not officially Local Chapter yet).

- *Participated in CLTP in 2011 (CLTP2), and 2023 (CLTP12)*
- *Attended UNISEC-Global Meeting in 2011 (?)*
- *Held CanSat Training Program in 2012*
- *Aeronautics and Space Talk, November 13th, 2023*
- *We have liNUSAT-1 project from 2010 – 2017 [failed to continue and launch the satellite] – UGM, UI, ITB, ITS & LAPAN*
- *2023: The satellite tech dev. Now officially in our Embedded system and Robotics lab.*

all the participants and the EO of CLTP2
after lunch meeting sunday Nov 13, 2011



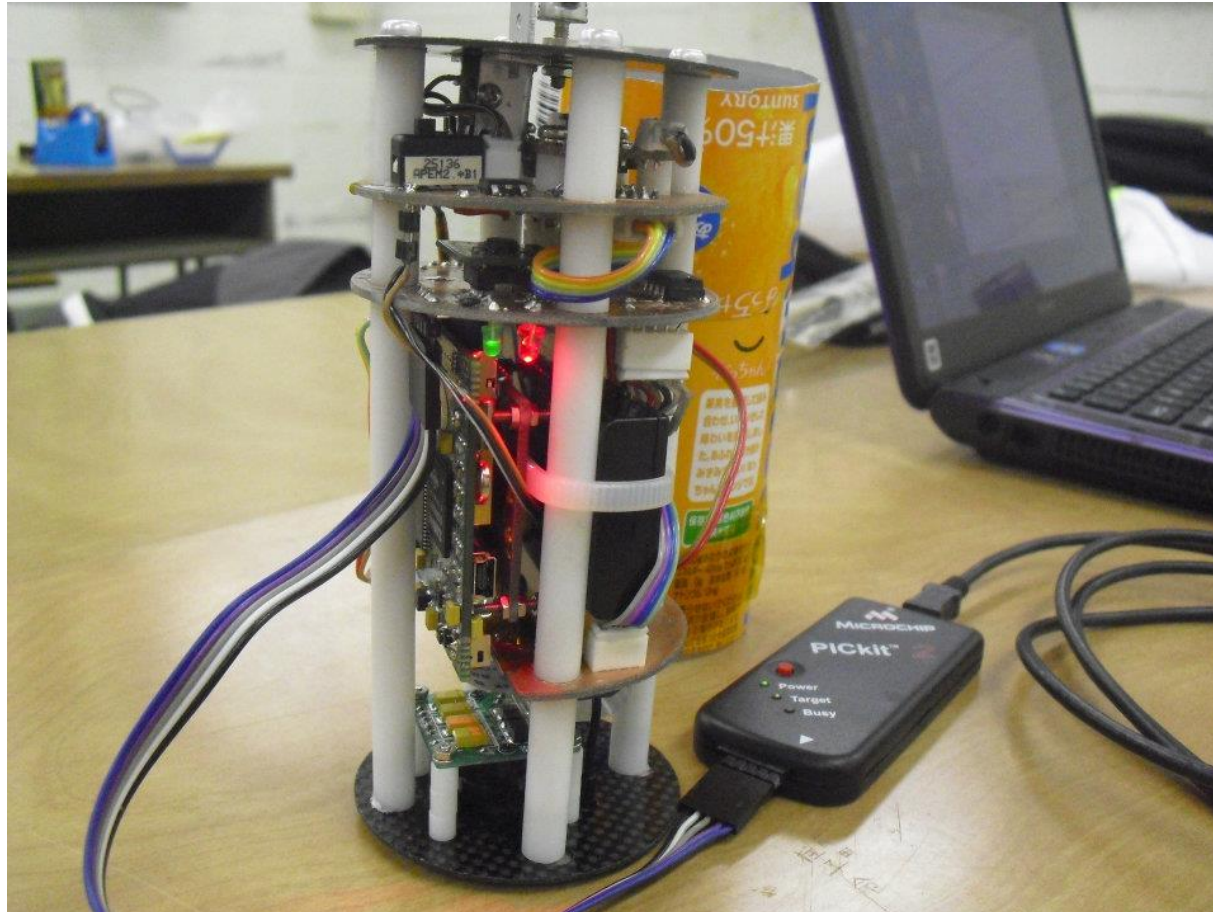
My CLTP2 name tag, 2011



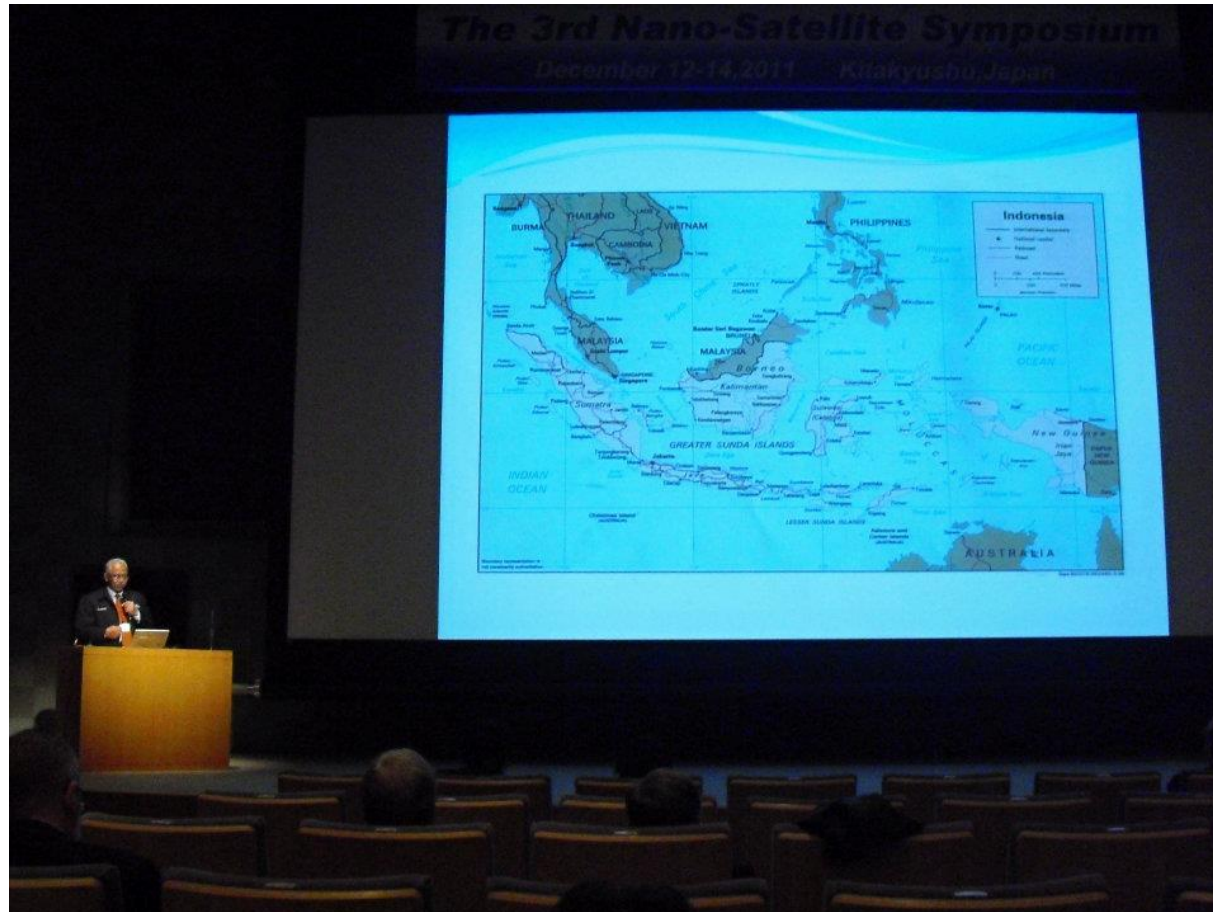
Briefing from Prof Miyazaki sensei – CLTP2, 2011



Our Cansat – CLTP2, 2011



the 3rd Nano-satellite Symposium - Desember 12-14, 2011 - Kitakyushu, Japan





CanSat Training program - 2012



CanSat Training program - 2012



News in Local newspaper - 2013

15 kampus

Memasyarakatkan Satelit dengan CanSat



Para pembuat "CanSat" dari ELINS Universitas Gadjah Mada.

Nama "CanSat" memang masih terdengar asing bagi sebagian masyarakat, namun tidak demikian halnya dengan Ginanjar Erwin Wicaksono, Christian Antonia dan Rangga Kurniawan. Ketiga mahasiswa Program Studi Elektronika dan Instrumentasi (ELINS) di Universitas Gadjah Mada (UGM) tersebut sudah setahun terakhir mengenal CanSat.

CanSat yang mereka buat merupakan purwarupa (*prototipe*) satelit yang menggunakan kaleng minuman soda sebagai wadahnya dan mempunyai fungsi serupa dengan satelit asli.

Pembuatan CanSat di kalangan mahasiswa ini bermula dari keikutsertaan salah satu dosen UGM, Dr Agfianto Eko Putra MSi, dalam pelatihan CanSat Leader Training Program (CLTP) di Jepang selama kurang lebih satu setengah bulan. Setelah lebih dulu membuat CanSat pada masa CLTP, dosen yang juga menjabat sebagai Kepala Program Studi ELINS UGM tersebut kembali ke Indonesia dan kemudian menularkan ilmu yang telah diperolehnya melalui pelatihan

“satelit yang menggunakan kaleng minuman soda sebagai wadahnya dan mempunyai fungsi serupa dengan satelit asli

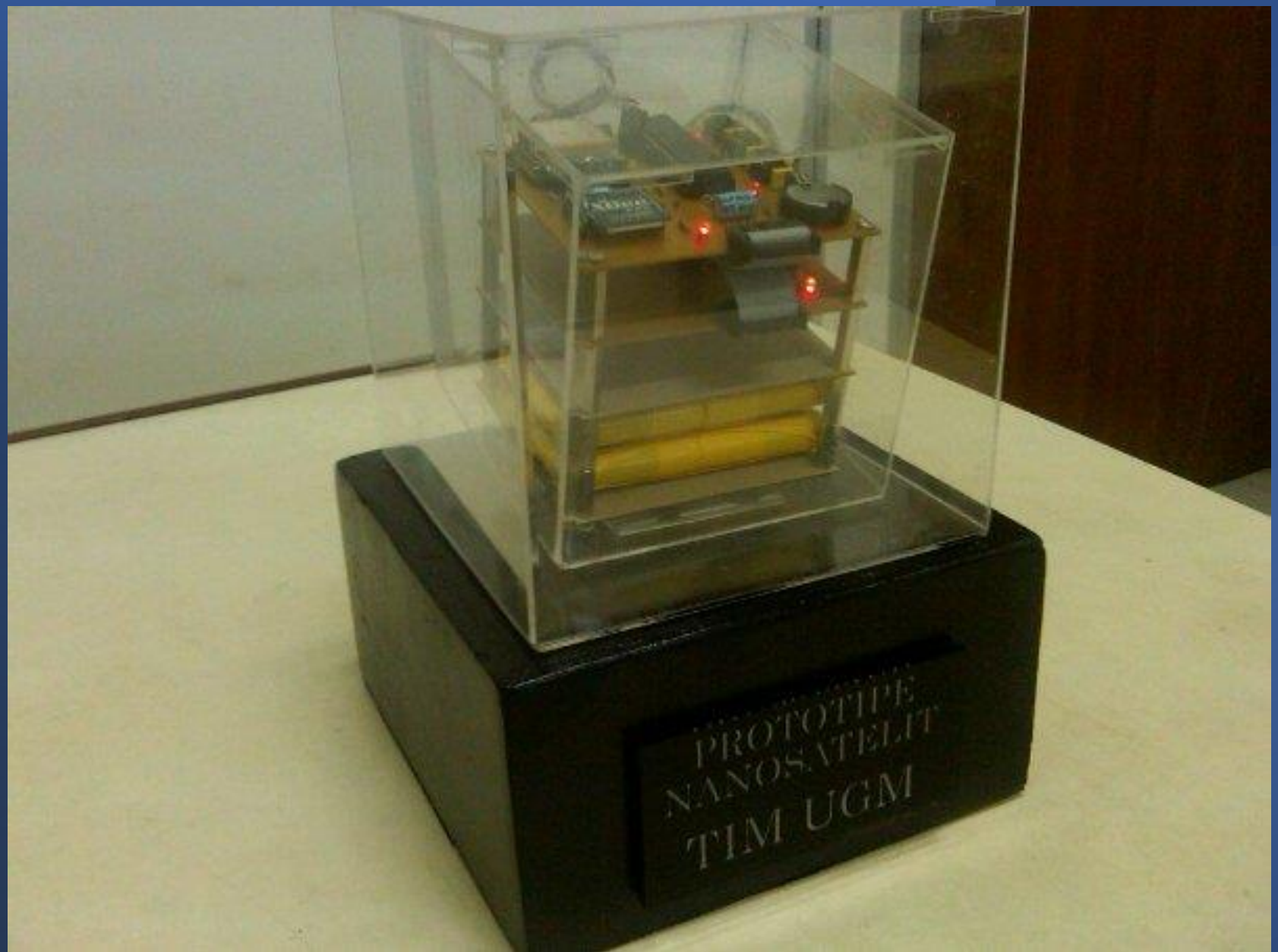
CanSat Training Program (CTP) bagi mahasiswa.

Pelatihan yang dimulai pada awal tahun 2012 itu ternyata diminati banyak mahasiswa yang punya ketertarikan pada bidang *aerospace*. "Pelatihan itu bersifat sukarela. Banyak sekali yang mendaftar, jumlah pesertanya mencapai puluhan orang baik dari mahasiswa S1 maupun D3. Namun karena beberapa hal, saat ini hanya ada 2 kelompok yang berhasil, salah satunya ya mereka ini," ujarnya saat ditemui beberapa waktu lalu.

Pelatihan tersebut dimaksudkan untuk membekali mahasiswa mengenal dunia persatelitan, supaya mahasiswa tahu tentang

liNUSAT project, team from UGM – 2010



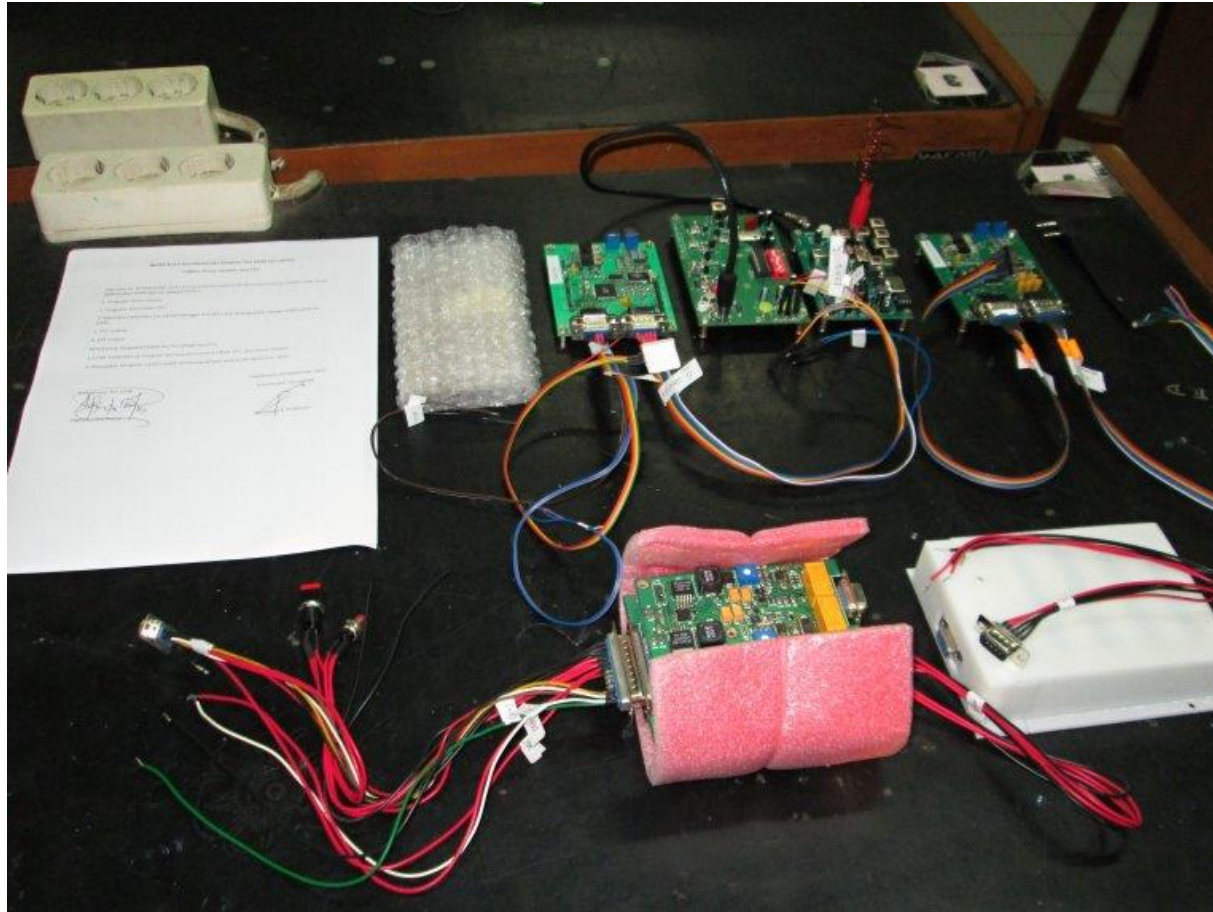




liNUSAT1 Functional System Test - 2011



Some of the modules – 2012 with Indonesia Aerospace Agency



Approval of the minutes of the second On-Board Data Handling (OBDH), Electrical Power System (EPS), and Telemetry, Tracking, and Command (TTC) functional test for liNUSAT-1 on September 29, 2012.



Participants from APSCO visited Yogyakarta on November 8, 2012 for the 4th conference on Satellite Communication Technologies and Applications.



2012: the 4th Nano Satellite symp



2012: the 4th Nano Satellite symp



the 4th Nano Satellite sympo Gala Dinner



Our poster at Japan Aerospace Exhibition 2012



UNISEC-Global Activities in 2022-23

****Number of**

- Member Universities: 1 (UGM, as far as I know)
- Students:
- Professors
- Others (Corporate members, etc.):

- *2023: Supervising undergraduate final assignments on the topic Satellites - 1 student*
- *2023: Disseminate The UNISEC Global Virtual Meeting*
- *2023: Participate in The CLTP12 by UNISEC, AOTS and Nihon University*
- *September 22, 2023: APRSAF 26th panelist in Session #5 : Future Generation "Nurturing Future Generation for Sustainable Development of Space Activities in Asia-Pacific Region"*
- *November 13, 2023: Aeronautics and Space Talents Talk with BRIN*

My Undergraduate student in the Satellite Tech. Dev, already graduated



Azizah Arwenti Putri
Elins 2019



Bagas Eko Prasetyo
Elins 2017



Devina Reva Kusuma
Elins 2019



Faizal Nurrahman Heryanto
Elins 2018

CLTP12, Nihon University, 2023



CLTP12, AOTS, 2023





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Alumnus DIKE

Berhasil Mengikuti

Cansat Leader Training Program (CLTP) ke-12

di Nihon University Chiba &
AOTS Research Institute Tokyo, Jepang



Faiz Nurrahman Heryanto
(ELINS '18)

Dr. Agfianto Eko Putra, M.Si.
(Dosen DIKE)



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Pak Dr. Agfianto Eko Putra, M.Si. sebagai Wakil atau Point of Contact Unisec Global dan Faizal Nurrahman Heryanto, Alumnus Elektronika dan Instrumentasi Angkatan 2018 mengikuti kegiatan CLTP ke-12 di Nihon University Chiba dan AOTS Research Institute Tokyo, Jepang pada 21 Agustus - 1 September 2023 lalu.



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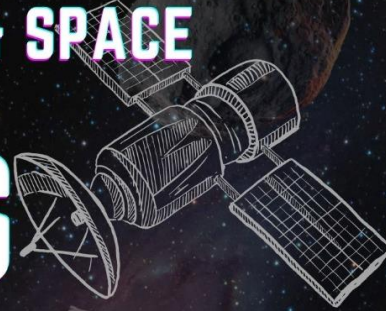
My Undergraduate student at CLTP12







AERONAUTICS & SPACE TALENT TALKS



SPEAKERS



DR. AGFIANTO EKO PUTRA, M.SI.
LECTURER OF DEPARTMENT COMPUTER
SCIENCE AND ELECTRONICS, UNISEC,
GLOBAL POINT OF CONTACT



DR. ARIF NUR HAKIM M.ENG.
HEAD OF RESEARCH CENTER
FOR ROCKET TECHNOLOGY



DR. EMANUEL SUNGGING
MUMPUNI S.SI., M.SI.
HEAD OF RESEARCH CENTER
FOR SPACE



DR. FADILAH HASIM B.ENG., M.SC.
HEAD OF RESEARCH CENTER FOR
AERONAUTICS TECHNOLOGY



DR. RAHMAT ARIEF, DIPL.ING.
HEAD OF RESEARCH CENTER
FOR REMOTE SENSING



DR.-ING. WAHYUDI HASBI S.SI., M.KOM.
HEAD OF RESEARCH CENTER FOR
SATELLITE TECHNOLOGY

MONDAY, 13 NOVEMBER 2023
08:30 - 12:00 AM
AUDITORIUM OF KPTU FMIPA
UGM BUILDING, 1ST FLOOR

Registration :

<http://ugm.id/AeronauticsSpaceTalentTalks>

Zoom for Hybrid Meeting :

<http://Ugm.id/ZoomAeronauticsSpaceTalentTalks>

MODERATOR



DR. R. SUMIHARTO, S.SI., M.KOM
LECTURER OF DEPARTMENT
COMPUTER SCIENCE AND
ELECTRONICS



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Roni (+6281328642582)

Plan for 2024 and beyond

- Disseminate the CLTP13 and the MIC event
- Give recommendation for the CLTP13
- Disseminate Virtual UNISEC-Global Meeting
- Disseminate Satellite Tech and Dev. – training etcs
- Research Collaboration Centre in Satellite Tech and Dev. (UGM and BRIN)
- BRIN = National Research and Innovation Agency

“Another” Plan for 2024 and beyond

- In 2024 we will have a collaboration research in
“Development of IoT Payloads on LEO Satellites for Disaster Monitoring in Indonesia” with 2 new master students (next semester 2024/2025)
 - Implementation of SDR-based satellite APRS data transceiver module
 - Advancing Disaster Data Collection through Satellite-based VDES Technology, with Validation via LAPAN A2 Satellite
- BRIN = National Research and Innovation Agency