



UNISEC-Global The 69th Virtual Meeting

June 20th, 2026, 22:00-24:00
(Standard Japan time GMT +9)

69th Virtual UNISEC-Global Meeting

Theme: CLTP 15th Anniversary Session (2)

Date: June 20, 2026 Time: 22:00-24:00(JST)

REGISTER NOW

Hosted by

Moderator

George Maeda,
ArkEdge Space

CLTP5 Graduate

Isai Fajardo Tapia
Deloitte Tohmatsu Cyber LLC.

CLTP3 Graduate

TEJUMOLA Raphael Taiwo
University of Southampton

CLTP2 Graduate

Thu Vu
Vin Space

Rohith 	Manol Avramov 	Edoe Mensah 	Pierre Youroug... 	Amanda Winter...
george 		Hafizullah habibi 		Hafizullah Habi...

The following report was prepared by UNISEC-Global Secretariat
June 20, 2026
Japan

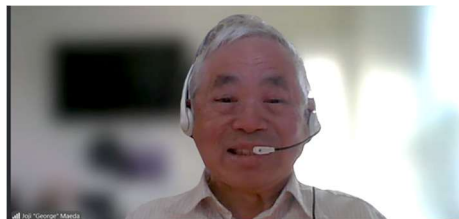
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1 Opening Remarks

George Maeda, UNISEC-Global

George Maeda is a prominent space engineering educator and UNISEC-Global moderator. With Electrical Engineering degrees from Maryland and Cornell, his career transitioned from early roles at AT&T and Panasonic into space science at Kyushu University and Kyutech. At Kyutech, he was instrumental in the BIRDS project, assisting over 15 developing nations in launching their very first satellites. Currently based in Boston, he works as a business developer for ArkEdge Space and serves as editor for the Boston Space Column, continuing to champion hands-on space education and international capacity building.



Pictured: Maeda-san giving the opening remarks to the 69th UNIGLO Virtual Meeting

Highlights:

- The session features presentations from distinguished CLTP graduates
- Dr. Tejumola was originally scheduled but could not attend
- CLTP stands for CanSat Leader Training Program
- Intensive training program designed for professors and instructors
- **Instructors learn how to conduct CanSat and HEPTA-Sat training through direct experience**
- Participants are expected to return to their home countries after completion
- They must then teach their own students using the skills they acquired
- **The very first CLTP (CLTP-1) was successfully held in 2011**
- This year officially marks the 15th year of program
- The program has trained a total of 159 participants so far
- These participants come from 63 different countries around the world
- There was a slight gap in the program's history due to COVID-19
- The host for these training programs is generally a university in Japan
- **The upcoming CLTP-15 will be held in August of this year and held at Nihon Uni. in Tokyo**

2 Presentation on "CLTP Experience and VinSpace"

Thu Vu, VinSpace

Mr. Thu Vu is a Vietnamese space systems engineer and entrepreneur whose career has progressed from managing Vietnam's early small-satellite laboratory at FPT University, to more than a decade of research and development work in the UAE, and now to leading VinSpace as its CEO. He has contributed to multiple CubeSat and small-satellite missions, including Vietnam's first CubeSat launched into orbit in 2012 and university-led satellite programs in the Middle East. After returning to Vietnam, Thu founded VinSpace to build a full-stack Vietnamese space technology company focused on small satellites, ground infrastructure, and satellite applications. His work aims to help Vietnam move from space-user to space-builder, developing practical satellite capabilities for Earth observation, communications, and future space infrastructure.



Pictured: Vin sharing his experience about CLTP

Highlights:

- Personal passion for space started back in 1997
- Heavily inspired by the NASA Pathfinder mission landing on Mars
- Was only a high school student during this historic event, formed an amateur astronomy club
 - The club shared knowledge on how to build telescopes manually
 - **Conducted various space education activities including launching model rockets**
 - Also organized community sky watching sessions to spread enthusiasm
- Originally working for a software company in 2008, quit his formal IT job to pursue his space dream
- He kickstarted the F1 CubeSat project right after quitting his job
- **The F1 CubeSat was a simple 1U educational CubeSat, team wanted to build the entire CubeSat**
 - Took almost four years to design build and test the satellite
 - The team lacked access to many standard AIT facilities, had to assemble their own clean room
- **Was given the life-changing opportunity to attend CLTP-2**
- CLTP-2 was held at Nihon University in 2011
- The program allowed him to connect with international friends and colleagues
- He learned systematic CanSat training directly from instructors rather than just relying on Google
- **F1 CubeSat was finally launched on the JAXA Kounotori 3 supply vehicle**
- Launch to the International Space Station occurred in July 2012
- The satellite was deployed after spending three months on the station
- Could not secure funding for a second project in Vietnam
- Connected with a German friend who suggested international opportunities
- **The UAE was kickstarting its space program in 2015**
- The UAE was actively looking for professionals with practical CubeSat experience
- Took a leap of faith and relocated to the Middle East
- Worked with the Mazda Institute and Khalifa University
- Also collaborated with the Higher Colleges of Technology
- Helped set up local labs and launch multiple CubeSats, eventually returned to Vietnam to lead VinSpace
- **VinSpace currently has approximately 50 employees**
- They organize space camps for secondary and high school students
- He strongly emphasized that the space industry is truly international and interdisciplinary

The journey continues...



Pictured: Vin's journey in UAE where he helped establish CubeSat program

Q&A Session:

Q: What is the difference between Vietnam's environment from 2010 and now?

A: Tu Vu: *Oh, it's completely different. Back in 2010, space was just a hobby for a few passionate people. There was almost no support, no funding, and very limited facilities. We literally had to build our own clean room. But now, the government and large corporations are seeing the value in high-tech industries. Companies like VinGroup are investing heavily in advanced technologies. The ecosystem is much more supportive now. There's funding available, better infrastructure, and a growing community of engineers who want to build a space industry in Vietnam. It's a very exciting time to be here.*

Q: Do you have a CanSat program for pre-university students in Vietnam?

A: Tu Vu: *At the moment, VinSpace doesn't have a specific CanSat program for pre-university students. However, we do organize space camps to get high school students excited about space. Our plan is to send one of our engineers to the next CLTP in Japan so they can learn how to run a proper CanSat training program. Once they return, we intend to start offering CanSat courses to students here in Vietnam to help build the next generation of engineers.*

Q: Were you an undergrad student in a different country?

A: Tu Vu: *No, I did my undergraduate studies right here in Vietnam. I did have the chance to attend some short training programs abroad, like at the International Space University in France, which was a great experience, but my formal degree is from Vietnam.*

3 Presentation on “CLTP Before and After”

Isai Fajardo Tapia, Deloitte Cyber LLC

Dr. Isai Fajardo Tapia holds a PhD in Space Engineering from Kyushu Institute of Technology in Japan and has over a decade of experience across academia, government, and industry. His track record includes working as a GEO satellite controller for the Mexican government, collaborating with the Mexican Space Agency, contributing to R&D in an industrial robotics company, and holding postdoctoral positions in Japan. He also participated in the CanSat Leader Training Program (CLTP 5) in 2014. Currently, he is a Senior Specialist at Deloitte Cyber LLC, focusing on space technology R&D and nanosatellite missions.

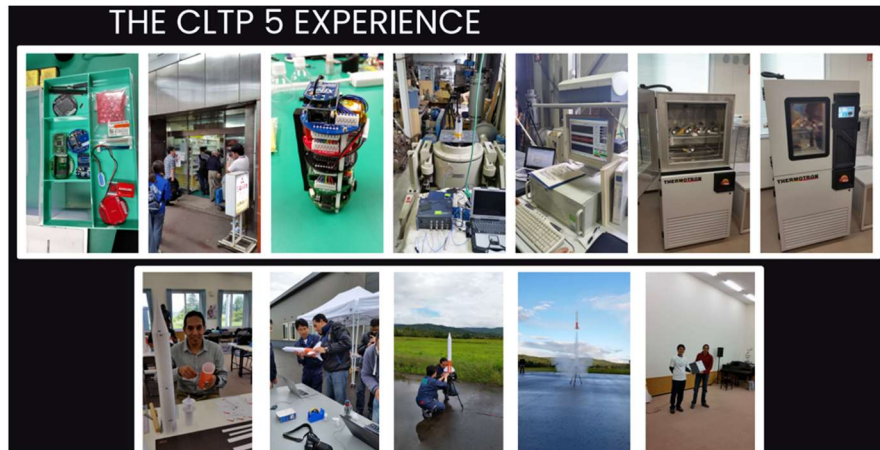


Pictured: Dr. Tapia explains the importance of hands-on learning through programs like CLTP

Highlights:

- Originally studied at UNAM in Mexico with a strong interest in space technology
- **Worked as a GEO satellite operator for MexSat**
- Travelled to the US for training at Boeing and Orbital Sciences
- Entering a clean room for the first time was a major milestone in his career

- Worked closely with the Mexican Space Agency to start university space programs
- Participated in CLTP 5 which marked a pivotal shift in his career
- **Working on CanSats taught him how to build complex systems entirely from scratch**
- CLTP enabled him to make significant contributions to Mexico after returning
- CLTP emphasizes the critical importance of hands-on systems engineering
- Learned to manage multi-variable engineering challenges through practical experience
- Highly values rigorous testing methods like vibration and thermal cycle tests
- Paper rocket tests and failure analysis are essential components of his engineering philosophy
- **Building subsystems in-house provides knowledge that managing outsourced parts cannot teach**
- From mission concept to hardware design, testing and failure analysis, CLTP is highly relevant
- Future leaders should focus on network, embrace failures and take knowledge home



Pictured: Dr. Tapia's sharing his experience at CLTP

Q: You experience CanSat and CubeSat both. What's the big difference between CanSat education and CubeSat education? And what we teach to students, what is the difference between these two?

A: Dr. Tapia: *Yeah, thank you very much for the question. I think it's a very interesting question. Actually, when I moved from CanSat to CubeSat, the main difference I noticed was the strictness of the requirements. In CanSat, you have a lot of freedom to fail. If your CanSat crashes, you just pick up the pieces, see what went wrong, and try again. It's fantastic for learning the basics, how sensors work, how to integrate them. But with a CubeSat, the cost of failure is much higher. You can't just try again easily. You have to follow rigorous testing procedures, like vibration and thermal vacuum tests, to ensure it will survive launch and the space environment. So, CanSat teaches you the fundamentals of how things work together, while CubeSat teaches you systems engineering, reliability, and how to meet strict standards.*

Q: George Maeda: Can you explain why that happens? I mean normally a company would outsource that satellite fabrication to an outside company but you decided to do it in-house. Can you explain briefly why that happens?

A: Dr. Tapia: *Yes, well, it's basically because Deloitte wants to enter the space sector with a focus on cyber security. And to truly understand the security vulnerabilities of a satellite, we need to know exactly how it's built, from the hardware up to the software layer. If we just buy a satellite from someone else, it's a black box. We wouldn't have the deep understanding needed to secure it properly. By developing it in-house, our team gains the expertise required to identify potential weaknesses and develop solutions to protect space assets against cyber threats.*

Q: Freddy: How did it feel the transition from CanSat, CubeSat, CLTP program to the industry? How he feels this transition?

A: Dr. Tapia: *Hi Freddy, good to hear from you. The transition was definitely challenging. In academia, your main goals are usually publishing papers or proving a concept, and you have a bit more flexibility. But in the industry, everything is driven by deadlines, budgets, and strict corporate policies. You have*

to deliver a reliable product that meets customer requirements. The hands-on experience I got from CLTP and building CubeSats was invaluable, though. It taught me how to approach complex problems systematically and the importance of rigorous testing, which are skills I use every day in my current job.

Q: In the context of the recent start of operation of the Latin American and Caribbean Space Agency, what could be one of the main challenges for the region?

A: Dr. Tapia: *I think the main challenge is aligning the different political interests and securing consistent funding. Every country has its own priorities and economic situations, so getting everyone to agree on a shared budget and mission objectives is very difficult. Also, navigating the different legal frameworks across the region adds a lot of complexity. It will require strong leadership and a lot of cooperation to overcome these bureaucratic hurdles.*

Q: Is there any way a model like the CLTP can be replicated in Mexico and Latin America?

A: Dr. Tapia: *Yes, definitely. In fact, it's already starting to happen. There are several universities in Mexico and across Latin America that are running their own CanSat competitions and training programs. The challenge is standardizing the curriculum and keeping the programs funded long-term. If we can increase regional cooperation and share resources, we could definitely replicate the success of the CLTP model on a larger scale in Latin America.*

Q: Would you be interested in sharing your experience online for South American countries?

A: Dr. Tapia: *Absolutely. I'm always happy to share what I've learned, especially with countries that are just starting to develop their space programs. Please feel free to reach out to me via email, and we can definitely set something up.*

4 Announcement & Acknowledgement

Haruka Yasuda, UNISEC-Global



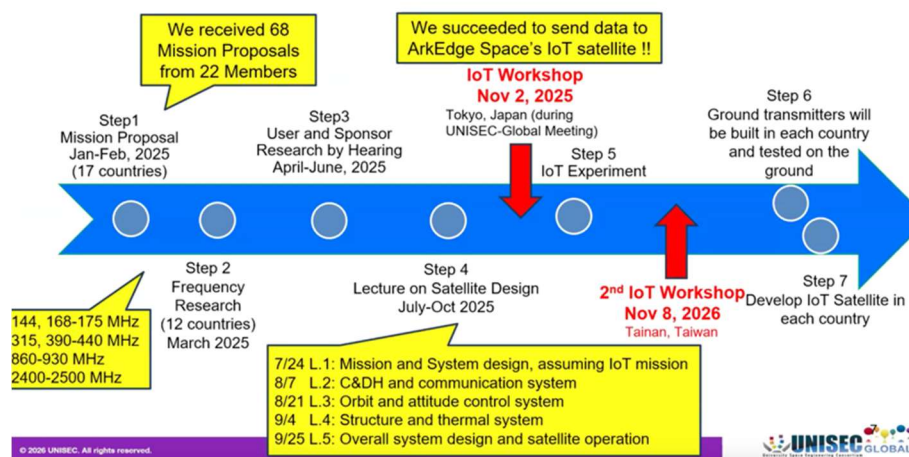
Pictured: Yasuda-San announcing the latest updates from UNISEC-Global

Highlights:

- **CLTP15 (CanSat/ CubeSat Leader Training Program)**
 - Date: August 18 – 28, 2026
 - Venue: Nihon University, Chiba, Japan
 - **Deadline completed on May 21, 2026**
 - Information: <https://cltp.info/cltp15.html>
 - Contact : secretariat@cltp.info
 - Application: <https://cltp.info/application.html>
- **Next Venue Announcement**
 - **The 12th UNISEC-Global Meeting**
 - **To be held online**
 - To facilitate all POC and students from all local chapters to participate

- Date: November 4, 2026
- Details will be announced later
- In person **POC** gathering at Antalya, Türkiye, afternoon
- **October 4, 2026**, in conjunction with IAC (T.B.D)
- **15th Nano Satellite Symposium to be held at Tainan, Taiwan**
- November 8 – 12, 2026, with
 - PreMIC10 (Nov 9)
 - 2nd IoT Workshop
 - 3rd Deep Space Workshop (Nov 8)
- **15th Nano-Satellite Symposium**
 - Call for paper:
 - <https://tasti2026.conf.tw/site/mypage53.aspx?pid=101&lang=en&sid=1691>
 - **Abstract submission deadline: August 23, 2026**
 - Website: <https://tasti2026.conf.tw/>
- **The Mission Idea Contest Completed**
 - The 10th Mission Idea Content Preliminary Workshop
 - **Theme: Orbit Change Without Using a Propulsion System**
 - <https://www.spacemic.net/>
 - **Important Completed Dates:**
 - Abstract submission due : July 22, 2026
 - Notification : September 3, 2026
 - Software submission due : End of September
 - Presentation at PreMIC10 : November 9, 2026
 - Contact: info@spacemic.net
- **Nano-satellite IoT Constellation Program**
 - A new program launched by UNISEC-Global
 - Jointly design satellite bus (3-6U) with online guidance
 - Each satellite will be developed by each country with its own funding
 - If difficult, we will jointly search for international funds
 - All the satellites have the **same mission payload**
 - Contribute to solving global problems or local problems as a constellation
 - Each country can have **one specific mission payload** for its own interest
 - Web: <https://unisec-global.org/iot.html>
 - Interested ones can submit the form here: <https://forms.gle/WcdvQ9GiQV9rxssj6>
 - The IoT workshop was held on November 2 at the 11th UNISEC-Global Meeting
 - Contact: iot@unisec-global.org
 - Experiment IoT transmissions to ArkEdge satellite: iot-support@unisec-global.org

Nano-satellite IoT Constellation Program Milestone



Pictured: IoT constellation program milestone

- **Launch Opportunity: J-Cube**
 - Special Discounted opportunities
 - 1U, 2U, 3U, deployment from International Space Station
 - Collaborate with UNISEC-Japan's University
 - Technical support will be provided, **application deadline: August 13, 2026**
 - Contact: info-jcube@unisec.jp, <http://unisec.jp/serviceen/j-cube>
- **Next Virtual Meeting**
 - Date: July 18, 2026
 - Theme: TBD
 - Host: TBD

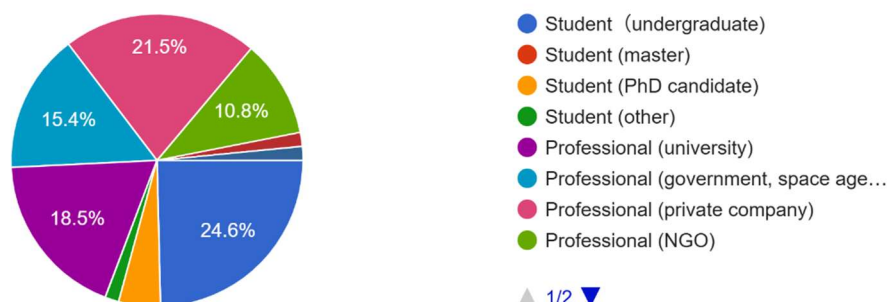
5 Participant Statistics

65 registered participants from 28 countries and regions for the 69th Virtual UNISEC-Global Meeting.

Country/Region	Registrants	Country/Region	Registrants
Afghanistan	3	Mexico	1
Argentina	2	Namibia	1
Bangladesh	1	Nepal	2
Bulgaria	2	Nigeria	9
Burkina Faso	1	Pakistan	1
Canada	1	Peru	2
Chile	1	Philippines	3
Cote d'Ivoire	2	Russia	1
Dominican Republic	1	Tanzania	3
Egypt	4	Thailand	2
Ghana	1	UK	1
India	5	US	5
Indonesia	2	Vietnam	1
Japan	6	Zambia	1

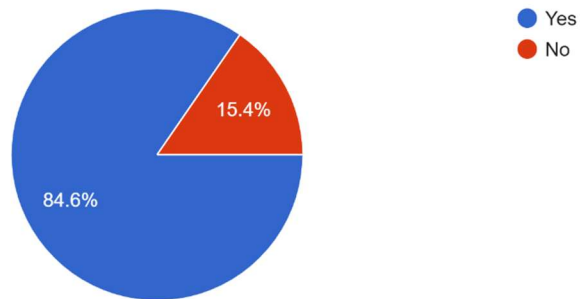
Student or professional?

65 responses



Have you participated in the UNISEC-Global Meeting previously?

65 responses



Are you interested in joining CLTP(CanSat/CubeSat Leader Training Program) ?

65 responses



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Thank you