Quetzal-1

Víctor Ayerdi Luis Zea PhD Co-PI's

satelite@uvg.edu.gt

Universidad del Valle de Guatemala



About the Project



- 1U CubeSat developed by Universidad del Valle de Guatemala (UVG) selected as the winner of the second round of the KiboCUBE programme in 2017.
- Mission: To design, develop and operate a CubeSat-class satellite to test a multispectral sensor prototype, opening the field of space science & technology in Guatemala, developing the country's human capital, and enabling the independent acquisition of remote sensing data for natural resource management.









The Team



~100 persons (undergraduate students, faculty, alumni, external advisors)



Phase 1: 2014



Phase 2: 2014-2015



Phase 3: 2015-2016



Phase 4: 2016-2017



Phase 5: 2017-2018



Phase 6: 2019

Design Iterations









Winner of the second round of the KiboCUBE programme









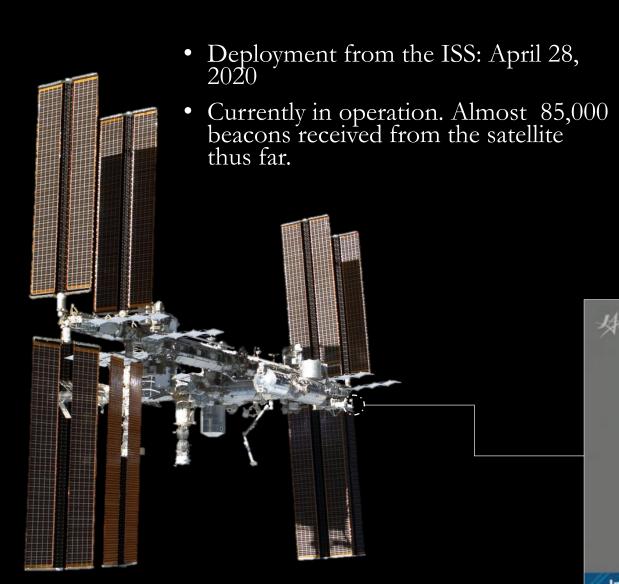


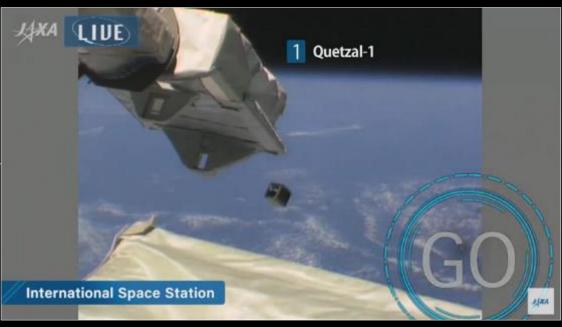
2014



Flight Model
Handed-over to JAXA
in December 2019



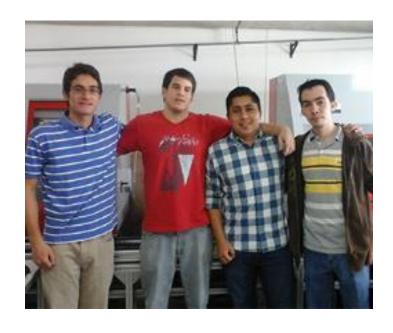




Images: NASA, JAXA

How participating in the KiboCUBE programme changed the project...

From a dream of a small group of people...



...to an historical achievement of a small country



Developing capacities



Developing capacities



Electrical Power System (UVG)

Command & Data Handling (UVG)

Antenna
Deployment
System (UVG)



Structure (UVG)

Communications (purchased)

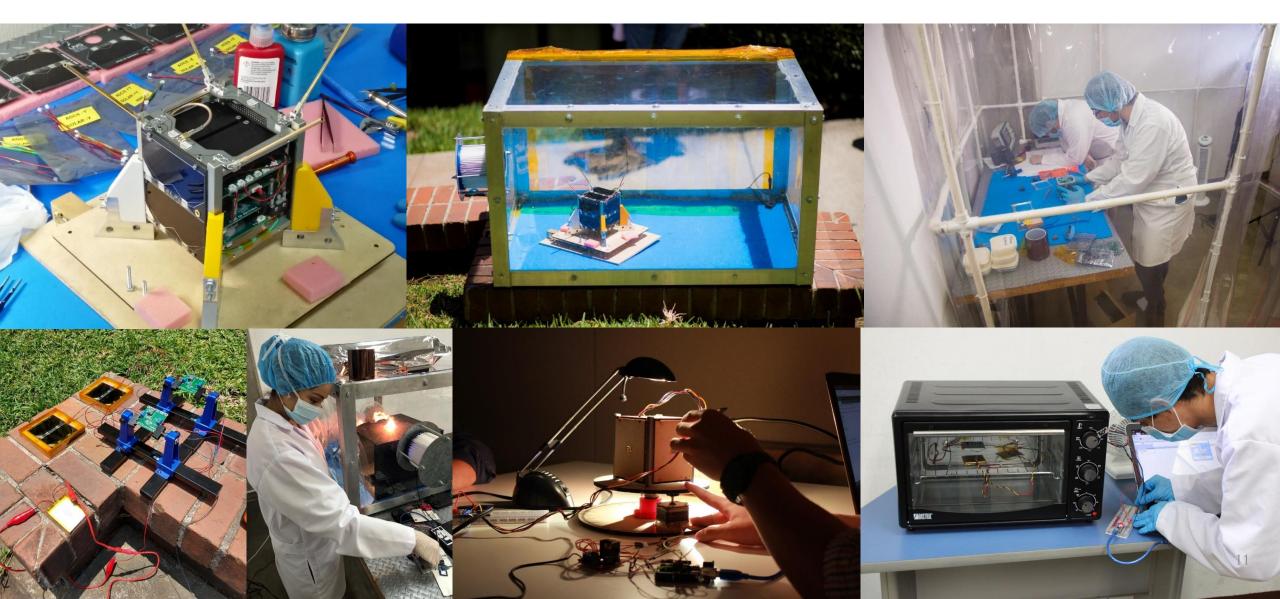
On board computer (purchased)

Attitute
Determination and
Pasive Control

System (UVG)

Payload (integration in UVG) 10

Developing capacities: test rigs, tools, equipment





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and sponsors























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@Quetzal1_UVG



