CTIC 3 UNI

NATIONAL UNIVERSITY OF ENGINEERING CENTER OF INFORMATION TECHNOLOGY AND COMMUNICATIONS

12th Virtual UNISEC Global Meeting August 21, 2021 ACTIVITY REPORT – UNISEC PERU



Facebook.com/labsmartmachines



PREPARING PROFESSIONALS FOR THE FUTURE IN SPACE TECHNOLOGY

2008



CTIC: 2008 building and equipments of the Center donated by the Korean International Cooperation Agency (KOICA)

2010 **NanoSatélite**

Works with started the Nanosatellite CHASQUI I in 2010 with multidisciplinary team of 70 participants, undergraduate, postgraduate, lecturers, researchers.

Educational Mission The fully completed in 2014.

Leader: Team Eng.Jose Oliden



Miss Rei Kawashima, CHASQUI I was put Secretary UNISEC Global in -Japan, visited Perú and deployed during a invited the Center to space participate in CANSAT Leader Training Oleg Artemyev from Program 2011. CLPT1. the Great experience.

18 de Agosto 2014



orbit hand walk the russian cosmonaut International Space Station (ISS).

2016

C'Space 2017 – France, ranked 2nd place in CanSAT ROVER competition.









Financed by Ministry of Production. Robot tested at undergroung mining firm: Compañía Minera Volcan.

Team Leader: Eng.José Oliden. 2016: Laboratory "Smart Machines"

May 2016: Start up "Playtec Lab", member of Smart Machines Lab won Hackaton with a mining helmet at National Society of Mining, Petroleum and Energy.



2017

2017: ESTACA Engineering School(FRANCE)member of ISAE Group, 1st world cluster in aerospace training and research started participating with Smart Machines in Rockets and Aerostatic Globes.

Remote work and virtual collaboration from March 16th 2020 up to date.

From time to time, fase to fase work 2021



Enero 2020

2022





Farmer Robot,
Pachaqutec Robot,
and others

Aerostatic Baloon

Aerospace Peru

Chasqui II-Eng. José Oliden

C'Space 2019 France: ranked 2nd in CanSAT contest.

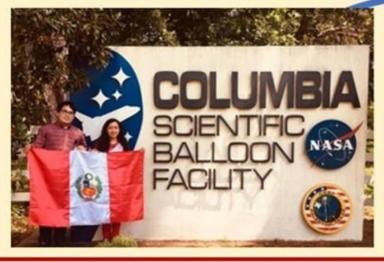
2019

"AllpaLlamk'ay" collects environmental data in order to control pests and diseases in agricultural crops.

Robotic courses for children: summer 2018, 2019 and 2020 (January-February).



AEROSTATIC BALOON - WANKA





HASP 2021 USA:

Wanka – Stratospheric Balloon payload approved for September 2021 launch on "High Altitude Student Payload", managed by NASA and Louisiana State University.

Wanka is a payload developed to measure stratospheric aerosols concentration.

2022

Farmer Robot,
Pachaqutec Robot,
and others

Aerostatic Baloon

Aerospace Peru

Chasqui II-Eng. José Oliden



AEROSPACE PERU

2017

2018



2019



2021



Aerospace Peru:

Development of experimental rockets, winner of the innovation award at National Society of Mining, Petroleum and Energy, 2018.



Participant C'space and Latin American Space Challengue. Research with IEEE indexed papers

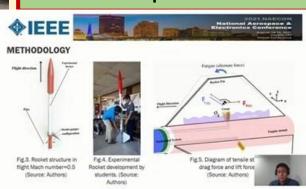


NAECON IEEE 2021

ICECCME IEEE 2021

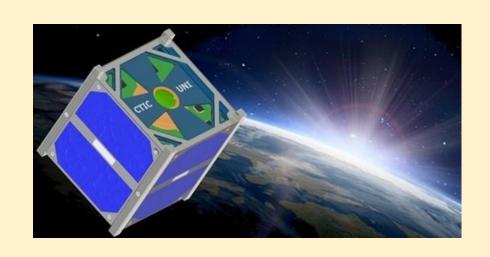
Latin American
Space Challengue

C'space





Nano-Satellite Chasqui II





Target

Design and implement a nanosatellite to train research capabilities in space technology with undergraduate students

The design consists of 1 unit with LEO orbit. The mission will study elements of the atmosphere.

Lastest Activities

2019



2020





2021

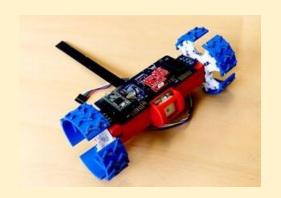


"STEAM en mi Colegio: Virtualidad, Programación y Robótica Educativa" es un proyecto de Indole social sin fines de lucro, financiado por la Embajada de los Estados Unidos de América en el

OBJETO

Generar y desarrollar competencias para el fortalecimiento de la educación en ciencia y tecnología, en estudiantes y docentes; así como incentivar la creatividad y el uso de la tecnología para encontrar soluciones en su comunidad, entorno, o para mejorar su desarrollo.















SEMANA MUNDIAL DEL ESPACIO PERÚ 2020

1 - 9 DE OCTUBBE

atellites improve life"





ENGITRONIC





















12th Virtual UNISEC-Global Meeting August 21, 2021 Time: 22:00 - 24:00 (JST)

Moderator: George Maeda, KyuTech, UNISEC-Global

OPENING REMARKS

Herman Steyn Stellenbosch University

PRESENTATION

Yeshurun Alemayehu Adde(Kibret)

Ethiopian Space Science & Technology Institute

Topic: Overview of Space Science & Technology Development in Ethiopia

BREAKOUT SESSION

All Participants

Moderator: Nate Taylor, UNISEC-Global

Theme: Space Education Policy Case Study

ACTIVITY REPORT: UNISEC-PERU

Margarita Mondragon (TBC)

ANNOUNCEMENT & CLOSING

Rei Kawashima, UNISEC-Global and those who have announcements

Thank you!



http://www.unisec-global.org/virtual-meeting.html



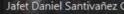














Arafa Aldaw



Master plan for the construction of the Nano-satellite.

2021

Landmark 1

We will launch the second prototype of the nanosatellite with a stratospheric balloon at 12 km altitude.

2022

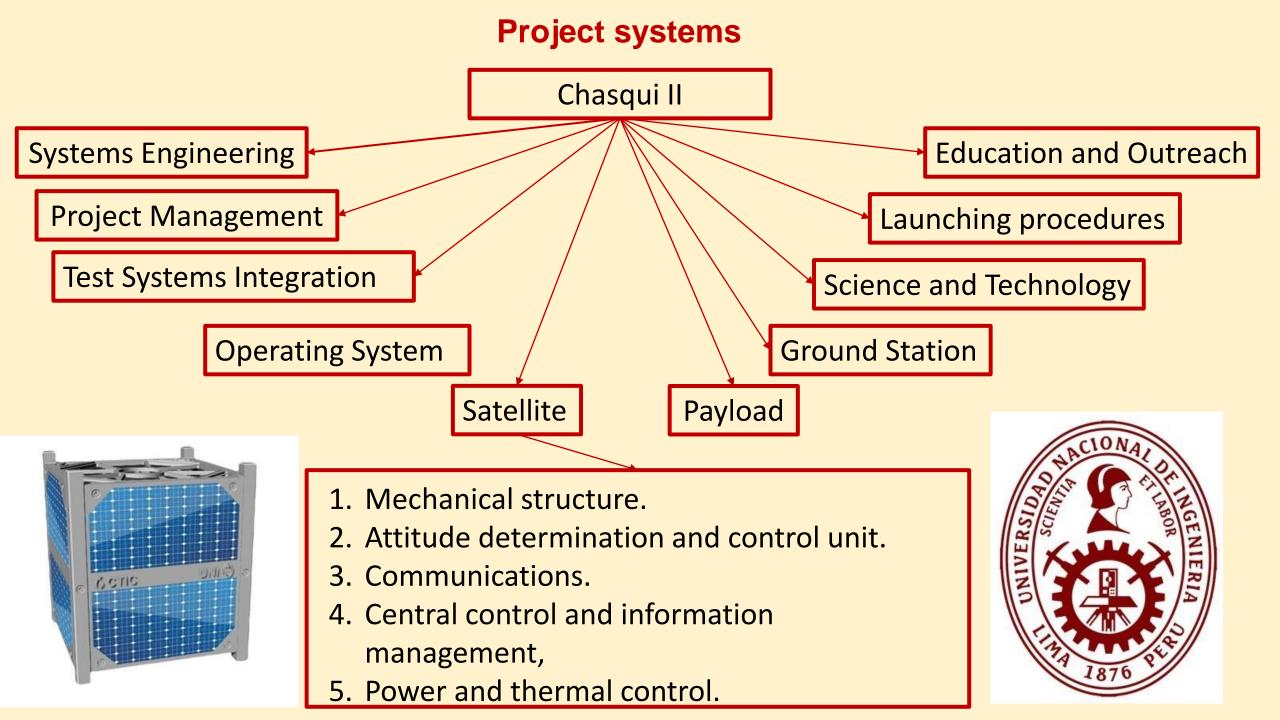
Landmark 2

We will launch the first prototype of the nanosatellite with a captive balloon at 100 m above sea level.

2023

Landmark 3

In this year, with the third prototype we will finish building our nanosatellite. We are looking for who could launch the nano-satellite.



Project team

The project team: 30 students and advisors. The undergraduate students involved are from the fields of Systems Engineering, Physics Engineering, Telecommunications Engineering, Electronics Engineering, Mechanical-Electrical Engineering, Mechanics Engineering, Communication, Art and Marine Biology.

The Government, the company and the academy must join forces to develop the satellite

technology of Peru.







CHASQUI II - Eng. José Oliden

Thanks UNISEC August 21, 2021

