



UNIVERSITÀ
DI PAVIA

Ph.D. Program in Electronics, Computer Science and Electrical Engineering

SEMINAR SERIES

Smallsats and Cubesats

Prof. Adriano Camps Carmona
Polytechnic University of Catalonia

Collegio Borromeo

10:00-13:00 June 3	Introduction and orbits
16:00-18:00 June 3	Space Environment and Thermal Control
14:00-16:00 June 4	Electrical Power Supply System
09:00-11:00 June 5	On Board Data Handling Systems
14:00-16:00 June 5	Telemetry, Tracking & Command systems
09:00-11:00 June 6	Attitude Determination & Control system
16:00-18:00 June 6	Product Assurance and Electromagnetic Compatibility

Abstract:

This seminar series has been conceived to teach the students how to design a Smallsat or Cubesat mission for Earth Observation. Students will learn which are the subsystems of these small satellites, their main characteristics and design constraints, and will practice how to design and plan a mission.

Bio:

Prof. Camps co-leads the Remote Sensing Lab (<https://prs.upc.edu/>), and leads the UPC NanoSat Lab (<https://nanosatlab.upc.edu/en>). He is the PI of the first four UPC nanosatellites, including FSSCat, the first mission contributing to the Copernicus System based on CubeSats and it has produced for the first time using CubeSats scientific quality soil moisture, sea ice extent, concentration and thickness, and sea salinity maps in the Arctic.

Organizer

Prof. Paolo Gamba

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Seminar in English

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