

International projects as effects of UNISEC activities

Italy

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Students of University of Bologna approached at UNISEC during the second Mission Idea Contest. It was an occasion to present a research made in the field of Space debris. The mission was focused on space debris problems and it had as target to perform an Actival Debris Removal, using particular polyurethane foam. Thanks with the coincidence with the 4th UN/JAPAN Nanosatellite symposium, students had could attend the presentations, in particular the one about CSDC (Canadian Satellite Design Challenge). After the presentation it was possible to meet the organizer of the CSDC, Larry Reeves, that invited the Italian students to the competition as partner of the Polytechnique of Montreal. This brings the students to develop and build a payload for the 3U Cubesat of the university of Monteral. It was a great occasion of international cooperation that brings a great experience. The preparation of the mission follows all the typical reviews and included the vibration tests at David Florida Laboratory of Canadian Space Agency. During the Pre Workshop to the 3rd Mission Idea Contest the team was chose as developer of idea of Joao Dallamuta, about ground station matched with satellite mission, suitable for educational purpose in the schools. During the Pre Workshop it was possible to meet people that now are partner in the mission for the 3rd MIC. The experiences that has started from the 2nd MIC, led to the team enough visibility to be selected as partner of the Ursa Maior project of University of Rome, a cubesat that will be launched with the QB50 programme. Thanks to this cooperation it was possible also to have the first Italian representative for UNISEC. Prof. Fabio Santoni, from University of Rome “la sapienza”, joined the UNISEC after that the students team introduced him to the UNISEC activities. All these activities, led also working opportunities to the group. An Italian industry: NPC New Product Concept sponsored all the activities of the group and offered work to the team for research in cubesat field..

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