

SPACE EDUCATION AND OUTREACH SYMPOSIUM (E1)
Lift Off - Secondary Space Education (2) (2B)

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UTILIZATION OF CAN SATELLITE TRAINING KITS TO PROMOTE SPACE EDUCATION AND
SYSTEMS ENGINEERING TO HIGH SCHOOL STUDENTS

Abstract

Can satellites are highly suitable tools to introduce high school students to the basic principles of systems engineering and satellite design. In addition to being low-cost and easy to develop, it provides students with a realistic experience on developing space mission analogues. In this paper, I will discuss the how the Philippine Space Science Education Program of the Department of Science and Technology, Philippines introduced the cansat training in 2015. The training consists of one-week intensive workshop on developing cansats to twelve high schools in the country. At the end of the workshop, they were tasked to develop secondary missions within one month. The cansats were then launched using a hexacopter from an altitude of 100 meters. In order to sustain the program, teachers were also trained in developing and utilizing cansats for science research experiments. The program was continued in 2016 and a Can Satellite Competition was conducted as part of the 23rd Asia Pacific Regional Space Agency Forum held in Manila, Philippines. Finally, I will be discussing the challenges in conducting cansat training activities and how it can be implemented in other countries interested in conducting similar activities.