## SYMPOSIUM ON TECHNOLOGICAL REQUIREMENTS FOR FUTURE SPACE ASTRONOMY AND SOLAR-SYSTEM SCIENCE MISSIONS (A7)

Technology Needs (Part 2) (2)

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## AEROSPACE SCIENCE APPLIED TO SCHOOL PROJECTS: PROJECT SPACE PIONEERS OF EDUCATION SCHOOL (EXPERIMENTAL ROCKET)

## Abstract

The Mission Pioneers in Space Education Program School of EEE above +14 degrees as a pilot project called experimental rocketry, is the analysis, design, construction, testing and launch of an experimental rocket solid fuel with a payload in excess 1000 meters in height through which it will perform the measurement of atmospheric constituents on the ground to Ecuador over 3000 meters above the sea level. (1000 meters above the launch site). In honor of the centenary of the death of the founder of the Congregation of St. Catherine of Siena, and in order to better understand the mood of their education and their intellectual solvency, which considered that the study and teaching as the most sacred duty, this experimental space vehicle bore the name of Fray Saturnino Gutierrez. By this order, will be provided to school-age youth a solid introductory training in concepts of science, technology and scientific thinking as they provide opportunities for the development and early involvement in projects related to aerospace sciences for the promotion of research, teamwork and healthy competition, trends in school projects for promotion of maximum utilization of existing resources each of the participating educational facilities. giving the development of research not only in Colombia but astronautics in the incentive and evolution of science in future generations to create a development which promotes the continuous improvement of education and the future of Colombia. Participants are high school students, teachers, parents and professionals in various fields. All up working groups recognized as critical systems. Each group is focused on each of the essential parts of a rocket experiment, which are structural system, propulsion system, payload system, power and communication system and auxiliary system. Critical mass for the promotion and development in our country. From college and how significant experience in school Funza Our Lady of the Rosary, it was decided to open spaces and encourage the creation of a hotbed of research in astronomy and aerospace science since 2010, allowing students to approach the scientific competence and research through the study and practice with his astronomical science related to aerospace, from the beginning of work of the nursery at an appropriate time for it, were drawn up many goals the participation in fairs, conferences and seminars, training of students through external entities as Maloka, participation as some international team at the school level aimed at projects involving topics or studies of astronomy.