

SPACE EDUCATION AND OUTREACH SYMPOSIUM (E1)
Interactive Presentations (IP)Author: Ms. SANDYA RAO
IndiaMr. Sreemon Chowdhury
IndiaADVANCED ROBOTICS AND AUTOMATION-HUMAN AND INTEGRATED
ROBOTIC/UNMANNED SYSTEMS. A NEW HYBRID SPACE EDUCATION.**Abstract**

Notion Robotics Education Specialists, division of Notion Robotics Lab a network of students and professionals in STEM in India and Internationally, with high interest and intent to research and produce a viable means of space infrastructure development and new launch systems that operate on a routine basis. Notion Robotics Education Specialists stems from India comprised of undergrads and graduates in STEM but have recently outreached and networked to have professionals and students of international backgrounds in STEM and other fields whose centricity is committed to making spaceflight and a space faring presence for humanity cheaper and viable to all.

As students and professionals with hopes to delve further into the field of space industry. We have observed and concluded to a point that there are two things required for larger scale space based developments need to succeed. The first is that both a Human and Integrated Robotic/ Unmanned Systems touch is critical to improving a tempo of space based projects. This applies on a manufacturing level and space operations level. We have also concluded that a new launch system whose technology readiness level on the industrial manufacturing scale can be compiled or allocated to mass produce a new spacecraft to offset the need of backordered vertical rockets. We have viewed Horizontal Launch based spacecraft an integral objective to meet as it would open up new opportunities on various levels of the aerospace industry and bringing a sense of bringing space closer to the public.

Keywords: - Vertical Rockets, Horizontal Spacecraft, Stem Education, Unmanned Systems.