

IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM (E1)
Enabling the Future - Developing the Space Workforce (5)

Author: Ms. Raihana Shams Islam Antara
BRAC University, Bangladesh, raihanashams.antara@bracu.ac.bd

Mr. Abdulla Hil Kafi
BRAC University, Bangladesh, abdulla.kafi@bracu.ac.bd

Mr. Maisun Ibn Monowar
LaSEINE, Kyushu Institute of Technology, Japan, p350933i@mail.kyutech.jp

MISSION 2027: SUSTAINABLE SPACE PROGRAM & A TECHNICAL ROAD MAP DESIGNED FOR
BANGLADESH TO ACHIEVE SELF-RELIANCE IN SPACE TECHNOLOGY

Abstract

The year 2017 marks a major milestone in space technology for Bangladesh. BRAC Onnesha, a 1U CubeSat has marked the start of space age for the country. After completing the satellite project, the profound output was one CubeSat in orbit and the immense growing interest among the young generation of Bangladesh to learn about space technology. The next mission of this project is to start sharing the knowledge that is gained during the period of BRAC Onnesha development at Kyushu Institute of Technology, Japan; in order to involve the students of Bangladesh with satellite research. The knowledge sharing would help the researchers and students to gear up for the future technical challenges in the field of space research and beyond. To continue the space program in Bangladesh and make it sustainable, a 10 years plan has been prepared proposed in this paper. The target of this plan is to prepare a capable team of scientists and engineers, in-house, enabling them to explore space through small satellite within next 10 years and turn Bangladesh a respectable space player by 2027. This paper will discuss the key challenges, a technical framework that contains three phases to achieve mission 2027 a road map for future satellite program in Bangladesh.