

Nayif-1



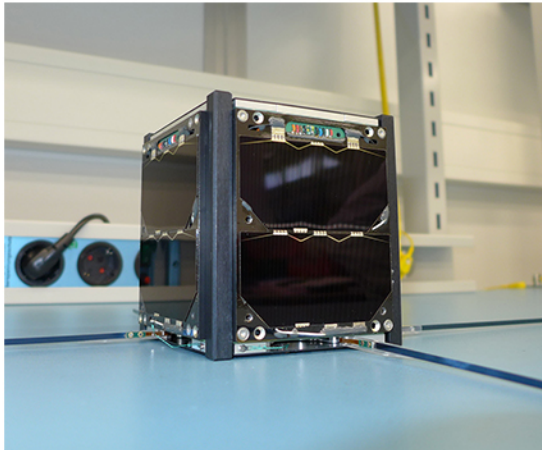
Nayif-1 (FUNcube-5) is the first ever CubeSat designed and manufactured by Emirati engineers. The name of the satellite is derived from the Arabic noun, which means 'one that soars high above' or 'one that is morally and intellectually superior.' For the Nayif-1 project, MBRSC (Mohammed bin Rashid Space Centre) established a partnership with the American University of Sharjah (AUS) in order to provide the engineering students with hands-on experience in satellite manufacturing, testing and operations.

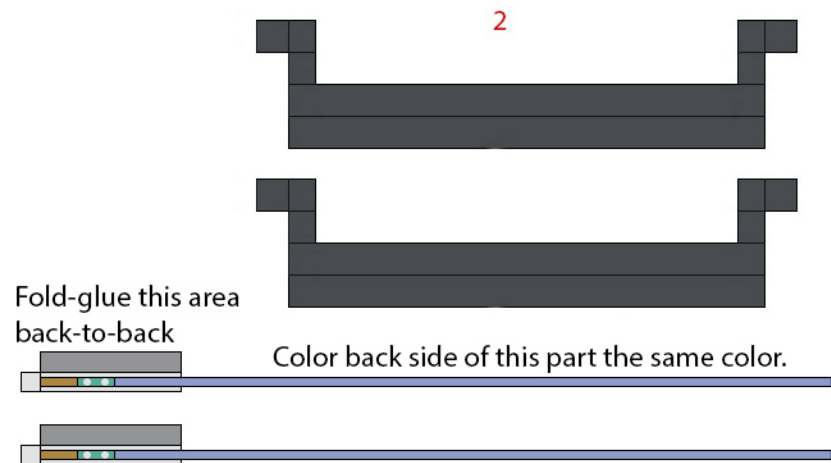
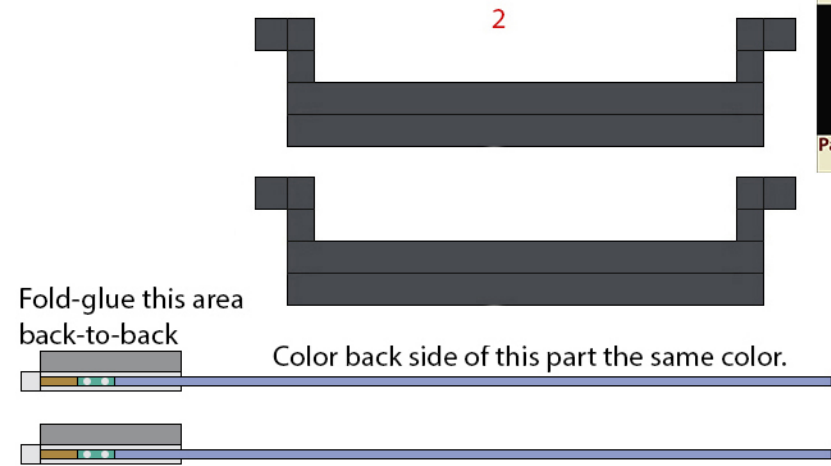
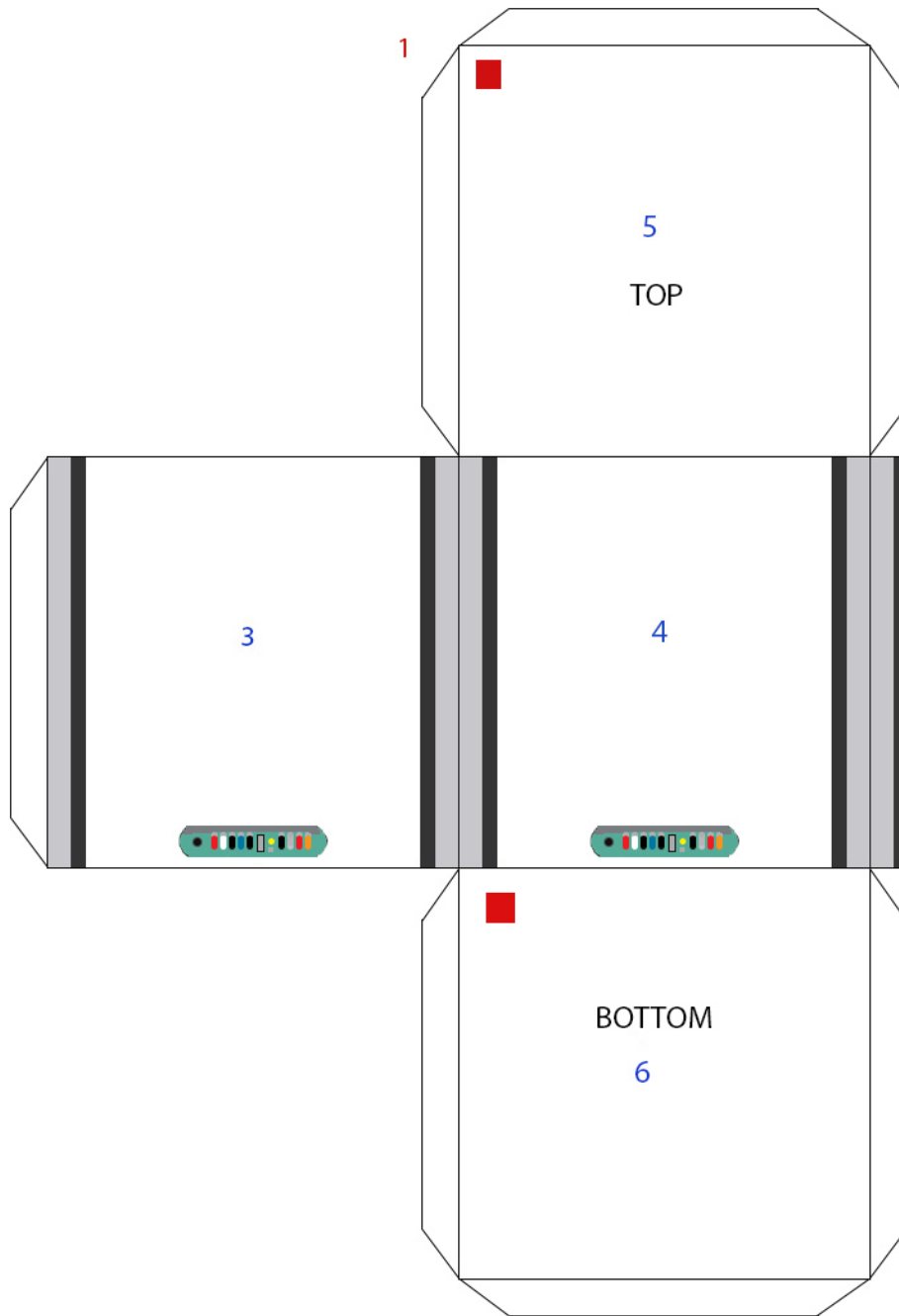
The Indian Space Agency ISRO successfully launched the amateur radio satellite along with 103 other satellites, a record for a single launch. The PSLV-C37 lifted off from the Satish Dhawan Space Centre, Sriharikota, Andhra Pradesh at 03:58 UT on Wednesday, February 15, 2017.

The Nayif-1 team consists of seven engineering students from the American University of Sharjah in electrical, mechanical and computer engineering disciplines. The satellite will be operated by these students, from the ground station to be built onsite at the American University of Sharjah.

With a dimension of $10 \times 10 \times 11.35$ cm³ and a weight of 1.32 kg, the CubeSat will produce a communication footprint ranging from 5,000 to 5,500 km and it will orbit at a height between 450 km and 720 km for up to three years. The satellite will re-broadcast text messages to the world and it will collect data to help academic institutions in conducting different types of research.

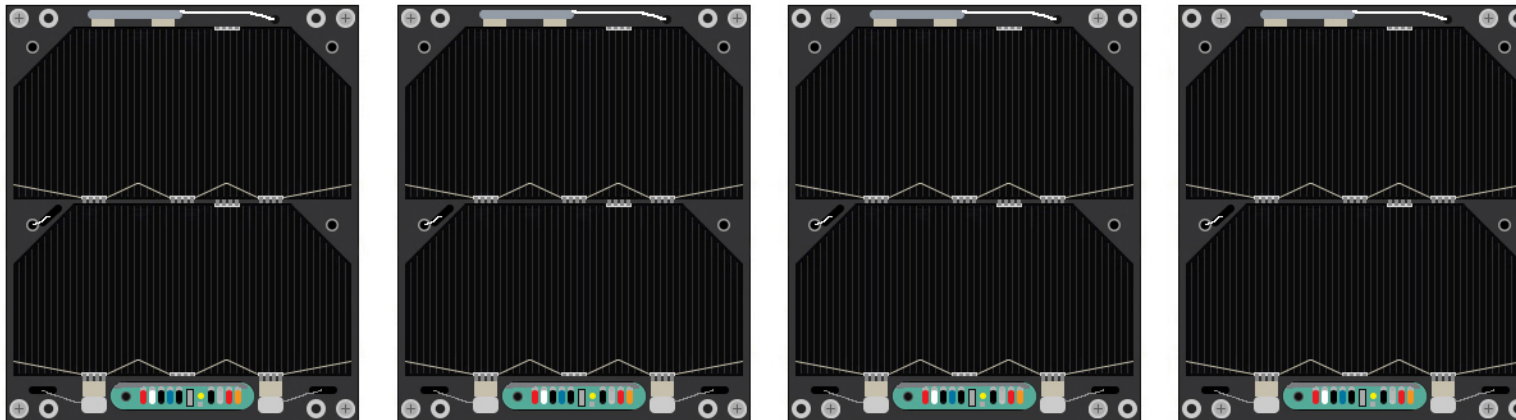
The spacecraft includes a U/V linear transponder and telemetry transmitter. It employs enhanced oscillator circuitry and includes an active attitude determination and control system.



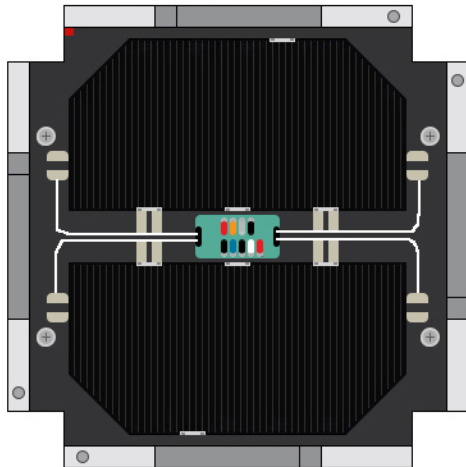


Glue these to cardstock

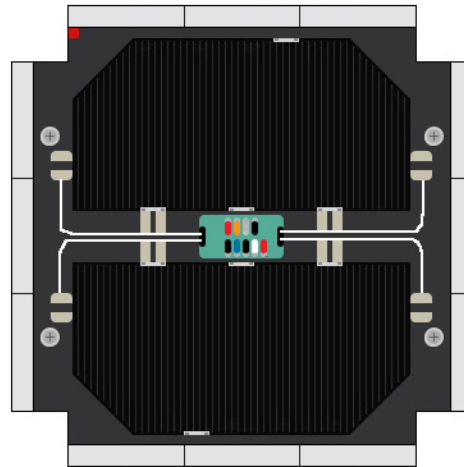
3 For more realistic look, remove the green area at the bottom. 4



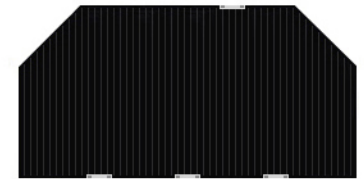
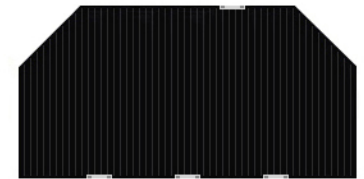
5 TOP



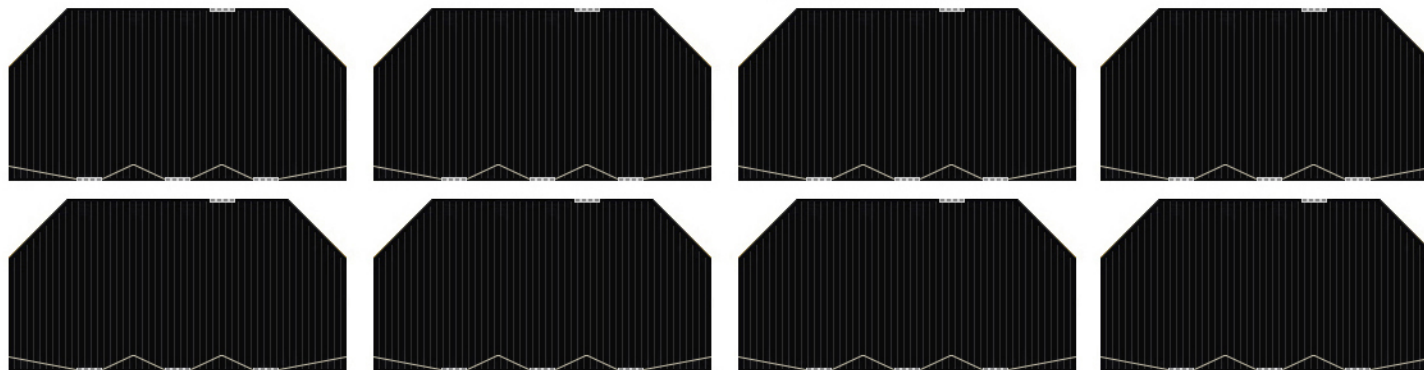
6 BOTTOM



Glue on the TOP



Optional Detail parts



Glue to the BOTTOM

