

The INPE-UFSM's NANOSATC-BR, CubeSat Development Program. The NANOSATC-BR2 Its Finalization & Launch

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The INPE-UFSM's NANOSATC-BR, CubeSat Development Program, the results of the NANOSATC-BR1 after its launch on June 19th, 2014, at the Russian Yasny Launch Base, as the first Brazilian Scientific Satellite, the NANOSATC-BR2 its finalization and expected launching in 2017 and the Program Capacity Building, are presented. Currently, the NANOSATC-BR Program consists of two CubeSats the NANOSATC-BR1 (1U) & NANOSATC-BR2 (2U), which are expected to operate in orbit for at least 12 months each; the Capacity Building with the involvement of UFSM' undergraduate students and graduate students in Brazilian and International Institutions, in Space Science, Engineering and Computer Sciences for the development of Space Technologies using CubeSats satellites are discussed. The INPE-UFSM's NANOSATC-BR Program Cooperation is basically among: (i) the Southern Regional Space Research Center (CRS), from INPE/MCTIC, where acts the Program's General Coordinator and Manager of the Projects NANOSATC-BR(1 & 2), having technical collaboration and management of the Mission's General Coordinator for Engineering and Space Technology at INPE's Headquarter (HQ), in São José dos Campos, São Paulo; (ii) the Santa Maria Space Science Laboratory (LACESM/CT) from the Federal University of Santa Maria – (UFSM); (iii) the Santa Maria Design House (SMDH); (iv) the Graduate Program and the Microelectronics Group from the Institute of Informatics from the Federal University of Rio Grande do Sul (MG/II/UFRGS); (v) the Aeronautic Institute of Technology (ITA/DCTA-MD); (vi) the Federal University of Minas Gerais (UFMG); (vii) the Federal University of ABC - UFABC). This paper focuses on the NANOSATC-BR2 finalization and its launching in 2017, the Program Capacity Building and the results of the NANOSATC-BR1 as the first Brazilian Scientific Satellite CubeSat. The INPE-UFSM's NANOSATC-BR Program and NANOSATC-BR2 Project has support from The Brazilian Space Agency (AEB) and from The Ministry of Science, Technology, Innovation and Communications - MCTIC.

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