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BIRDS-NEST PHONE APPLICATION

Abstract

Nanosatellites are a revolutionary addition to the space industry. Non-space faring countries benefit from this as it allows them to enter the space industry. This is seen through the success of the BIRDS program (10 countries from Asia and Africa launched their first satellites through it). Satellites are launched, engineers are formed, research is conducted, and a global network is established all over the world. Generating interest amongst the public is conducted through traditional means such as newspaper articles, news, media, and radio. These outlets do not reach a considerable audience and thus awareness of the educational satellite and its initiatives are not adequately achieved. Therefore, the BIRDS-NEST (Network of Educational SaTellites) Phone Application was conceived, and its primary purpose is to impact a wider target audience and provide users visual interaction access to the collected BIRDS satellite data. From the data acquired through BIRDS satellites missions, a panoply of information can be consulted by anyone who holds a smartphone. BIRDS-NEST relies on the Cloud system to describe the real-time status (ex. temperature, battery information) and behavior (ex. trajectory) of the satellites. Users from different continents and backgrounds are already highly satisfied by the product. Further investigation is now focusing on implementing graphic plots of the treated data, and language flexibility of the application for more impact.