

## **5. Satellite Programme**

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### **Summary**

NTU satellite research centre (SaRC) has a successful satellite program. In collaboration with DSO, SaRC has developed the First Singapore built satellite (named X-SAT) and it was successfully launched on 20 April 2011. Since then, the satellite has beamed back several thousands of images and we will see its second anniversary in Space this coming April. Our student team has also completed two pico-satellites (weighing 1.3kg) named VELOX-P and VELOX-PII last July. A nano-satellite (weighing 4.5kg) named VELOX-I will also be completed this year. All these satellites will be launched into space once there is launch opportunity. In each year, we involve at least 50 undergraduate students from different engineering schools and various years to work on the satellite in the form of UREA/DIP/IA/FYP. Many of these students also continue to work as research staffs and PhD students. EDB considers satellite as an important new industry in Singapore and has put up \$90M research grant to grow this area in 2013. Students who work in this program are generally appreciated by all the industries since "Space technology is the pinnacle of Science and Technology". For more information, please visit our website: <http://www.sarc.eee.ntu.edu.sg>.

In this DIP, you will be introduced some specific topics of the satellite program.