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Youth Futures

UTS  
UNIVERSITY OF TECHNOLOGY, SYDNEY

# TECHNOLOGY WORKSHOP: SATLAB

School holiday workshops at UTS :: October 2019



**WHEN:** Thursday 10 October 2019, 9:30am – 4:00pm

**WHERE:** University of Technology Sydney, Broadway Campus

**FOR WHOM:** Year 4 – 7 students

**REGISTER:** [www.bit.do/brightfutures19](http://www.bit.do/brightfutures19)

**COST:** \$100

**WORKSHOP:** There are thousands of satellites in orbit around Earth and some of these were launched specifically for kids to play with. In this workshop we will learn how to use Python (an awesome programming language) to tap into US Space Command to find and track satellites in the sky. We will build a simple antenna to listen in to telemetry from satellites and decode it on a Raspberry Pi. Bonus 2019 material for those who attended in 2018: You'll be building and deploying a SatNOGS 3D printed satellite ground station to track satellites for the rest of the group to use.



**FACILITATOR:** Stuart Warren's favourite subject at school was physics, wholly because his teacher used to build submarines and was able to relate the subject back to his industry background. Stuart has been running STEM programmes on a weekly basis for the past 5 years, with highlights including teaching 7 year olds the principle of trilateration used in GPS and building a working recycling plant. He has coached First Junior FLL and FLL Lego robotics teams. A love of physics inspired Stuart to study engineering at UTS. He has since designed software and electronics in mining (Rio Tinto), automotive (Delphi), medical (Photonics Research Ontario) and consumer electronics (Canon) industries - sadly no submarine projects yet. At UTS Rapido, he works to translate UTS research into future products. Stuart aspires to break the world record for the tallest bicarb soda and vinegar volcano (currently at 10.2 m).

Registrations are now open!

For more information contact the International Research Centre for Youth Futures

[www.bit.do/brightfutures19](http://www.bit.do/brightfutures19) :: [ircyf@uts.edu.au](mailto:ircyf@uts.edu.au) :: 02 9514 2752