



## PROGRAMMING & ELECTRONICS LEVEL 1

YEAR 5 TO 7 – 2024 APRIL SCHOOL HOLIDAYS



Join Tristan, Sam and Jonathan for an exciting adventure into the world of programming and electronics. This is an entry level course, meaning no prior knowledge of programming or electronics is required, though is recommended for students with an interest maths.

Our previous courses have been run at Kaurilands and Titirangi Primary schools. After a full day of coding, we invite the families of the students to join us for certificate presentation and a BBQ dinner.



### WHAT YOU WILL LEARN AND MAKE

Learn the fundamental skills of programming in the industry standard C++ language, using the extremely popular Arduino microcontroller chip. By the end of the course, students will have completed projects that they can use in their own home such as an ultrasonic range finder with a dynamic OLED display.



### YOUR PERSONAL ELECTRONICS KIT

All students receive their own comprehensive electronics kit, project manual, and programmable microcontroller. The kit includes dozens of sensors and components that can be used for a multitude of applications. It comes in a portable carry case and is for the student to keep. Laptops are provided for use in class, and instructions will be provided for setup on a home computer.



- **Date:** Wednesday, April 24<sup>th</sup>, 2024
- **Time:** 10:30am - 4:30pm followed by a BBQ dinner (parents and siblings welcome)
- **Venue:** 541c South Titirangi Road, Titirangi (private residence)
- **Cost:** \$350

We have only 9 places available, please apply through our website as soon as possible.

[Click here to apply](https://theacademy.ac.nz/apply/after-school)  
or visit

<https://theacademy.ac.nz/apply/after-school>

#### COURSE RUN BY

Tristan O'Hanlon

Lecturer at the University of Auckland in the Department of Physics

Jonathan Rogers

Game Director - Grinding Gear Games Ltd (creator of the popular game Path of Exile)

Samuel Crookes

Director - Warp Speed Computers Ltd



THE ACADEMY

