RoboMaster

Autonomous Vehicles Level 2

Duration

AM Session

9:30 – 11:30am

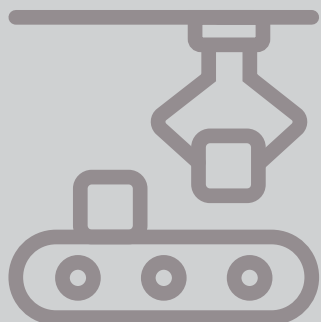**PM Session**

12:00 – 2:00pm

Session timings may be adjusted slightly to suit school calendars between the hours of 9:30 – 2:30.

Curriculum Level

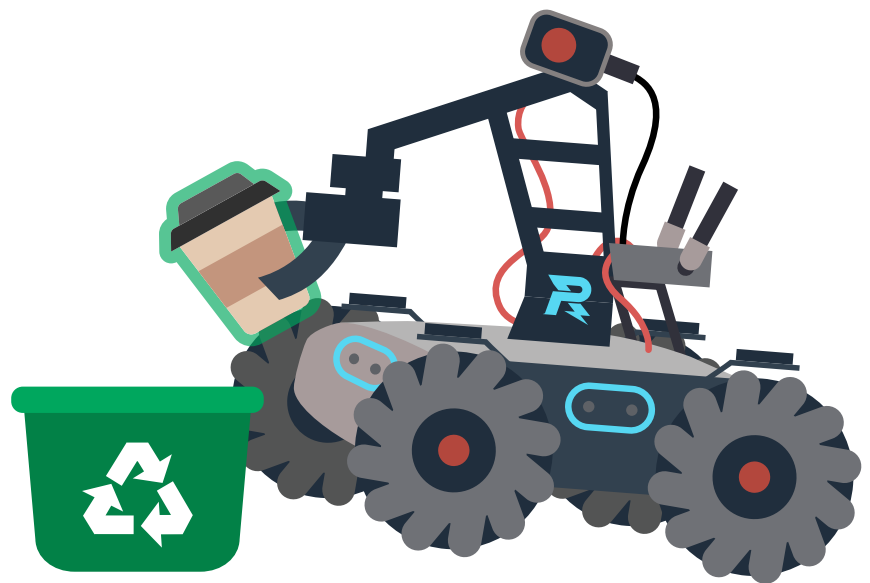This program is suitable for students from level 8 to level 12.

Class Size

1 Class: 28 students

Students will use blockly and python to program an omni-directional vehicle to navigate obstacles employing logic and decision making. Once successful, the students will move on to image recognition allowing the robot to detect signs and make decisions for itself.

- Block Coding
- Troubleshooting
- Time Trial Testing
- Career Pathways

Autonomous Vehicles	
Level 1 Thymio Robots	Programming Thymios to self navigate.
Level 2A Tello	Coding the drone to fly an obstacle course. Coding the Robomaster to navigate around obstacles and recognize images.
Level 2B RoboMaster	
Level 3 Smart City	Using different technologies to create a smart city.