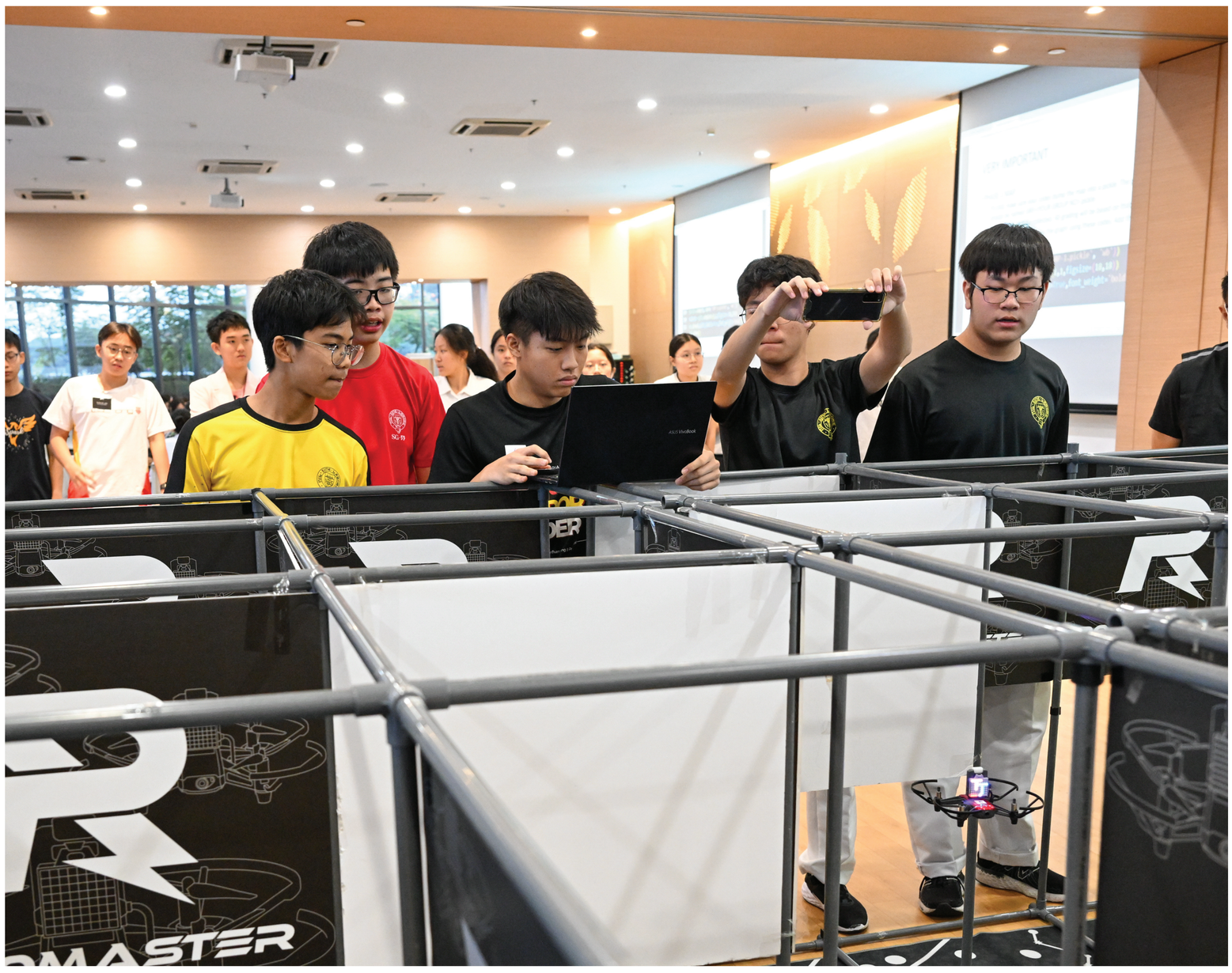
# AUTONOMOUS DRONES

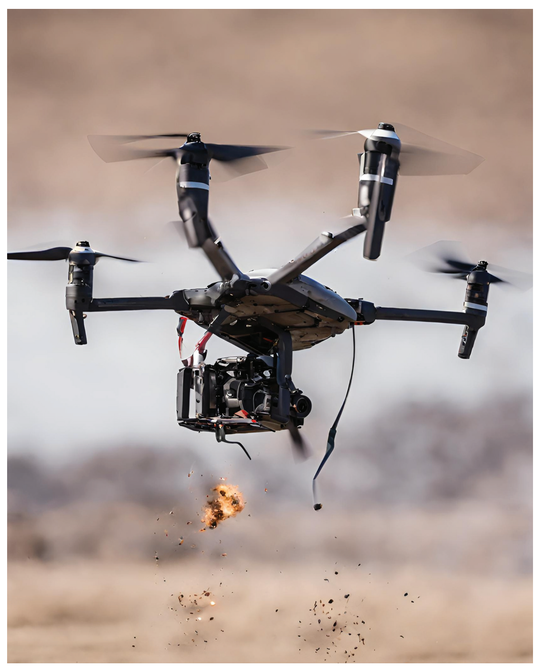


## OUR PROJECT

During the YDSP Camp, hosted by DSTA, our team of 5, learnt about the functions & applications of drone technology in the homeland defense of Singapore, such as the use of drone swarms or surveillance technology. Along the way, we were allowed to experiment with various projects, building a drone out of ice cream sticks, and programming a drone to identify faces & people.

In addition, we also applied our knowledge and programmed an autonomous drone to navigate & map an unknown maze over the five days. To make this feat possible, our team coded ~1000 lines of code, which consisted of logic that allowed the drone to autonomously identify, map,  backtrack & navigate in the maze successfully.

## MODERN TIMES, MODERN DRONES



Automated Drones play a pivotal role in the defence industry, reducing operation cost & increasing capability, executing dangerous missions with ulmost speed & precision, reducing human intervention.

## OUR ORIGINAL PRESENTATION

Members:
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YDSP Young Defence Scientists Programme
DSTA Defence Science & Technology Agency
DSO NATIONAL LABORATORIES