

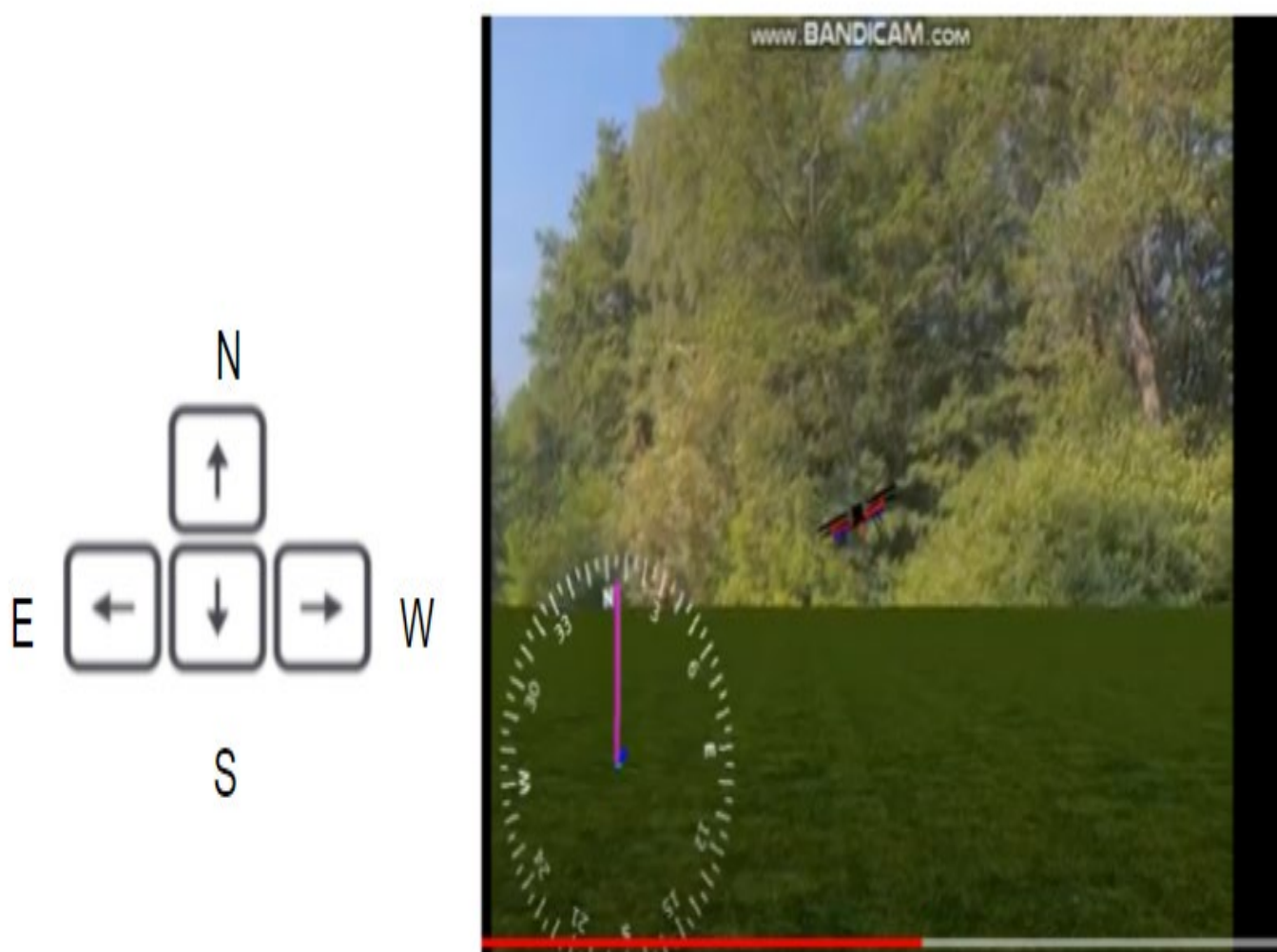
Analysis of PX4 Software & Development of Drone Applications

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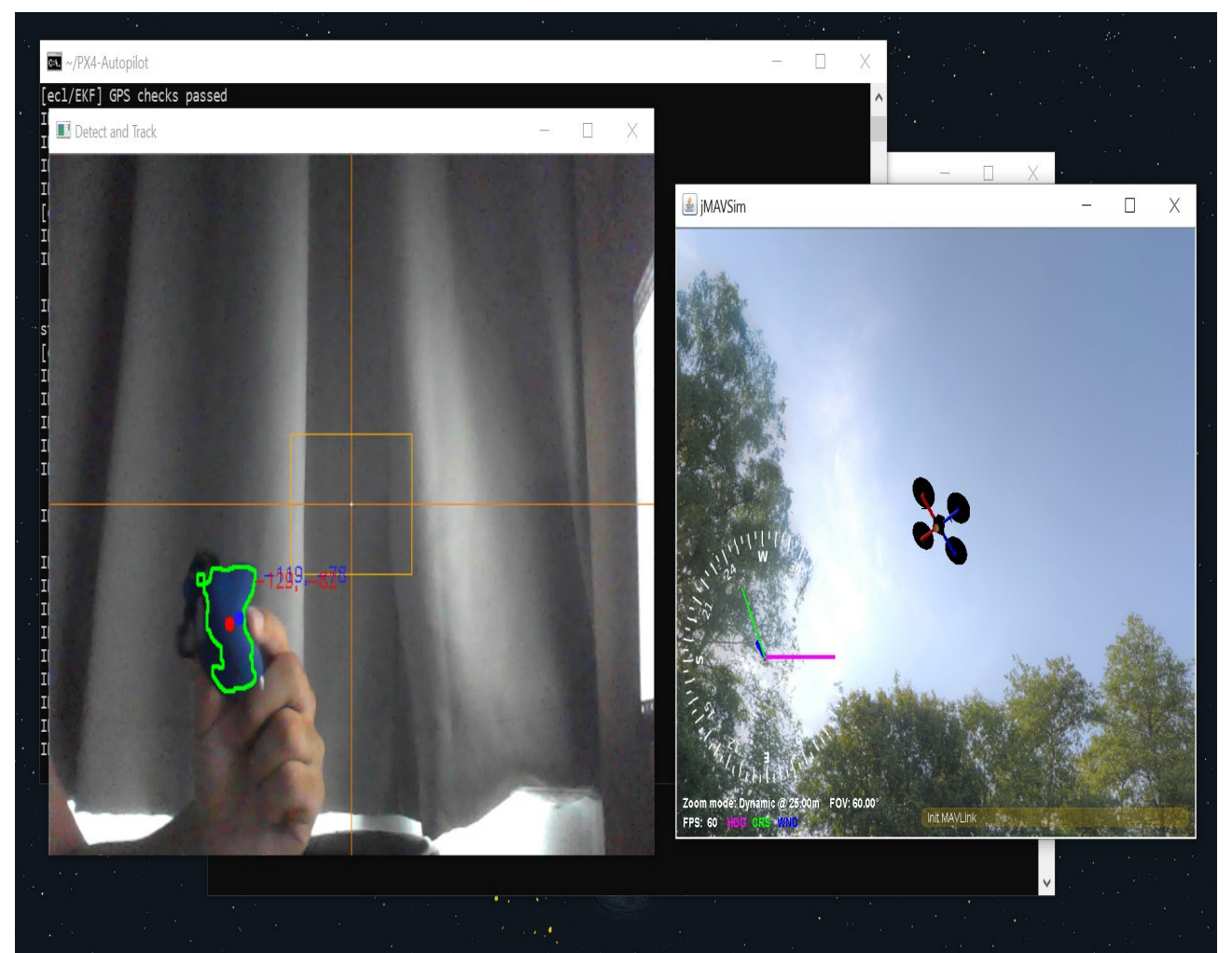
Supervisor: Dr Qian Kemao

Project Objectives:

Backed by an ever-increasing consumer demand for advanced & more portable drones, the area of drone technology is now being researched extensively. In this project, we will be mainly looking at the PX4 flight control software. The author uses a software analysis report to cover all the major concepts about this software & the setup needed to work with PX4. As a result of the development work carried out in this project, the author has thus implemented three different modules that tackle different challenges in the field of unmanned drone aviation.



Module 1

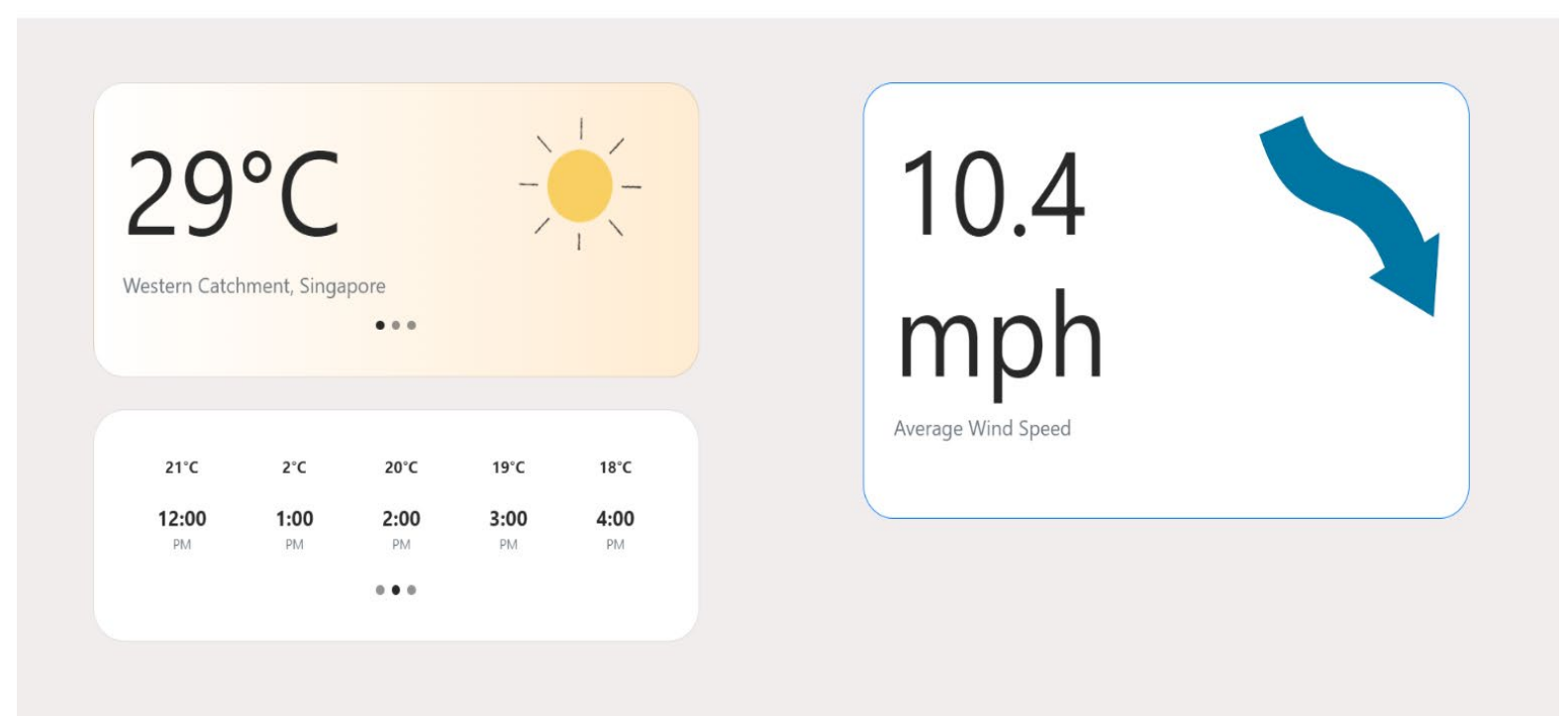
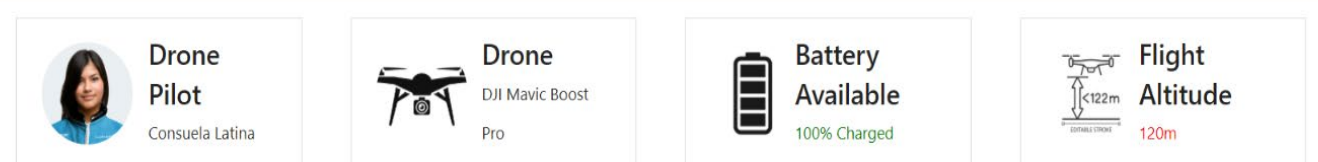


Module 2

Module 1 is centered around the creation of drone control algorithms that self-adjust during flight against external factors.

Module 2 revolves around the building of a drone control system using Object Detection & Tracking.

Module 3 explores the development of a drone platform that acts as a centralized log file manager & provides other useful features required by students and drone pilots alike.



Module 3