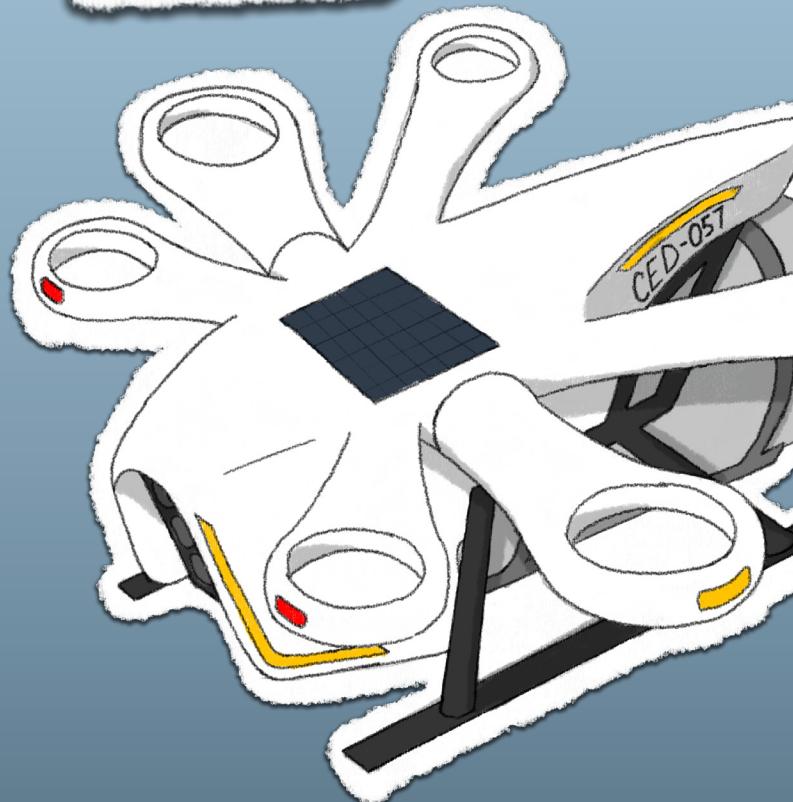
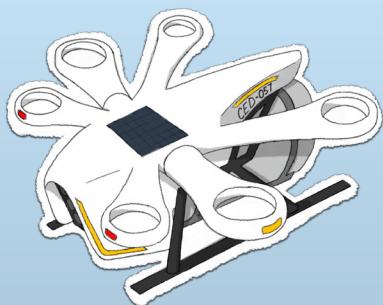


# Carbon Enforcement Drone







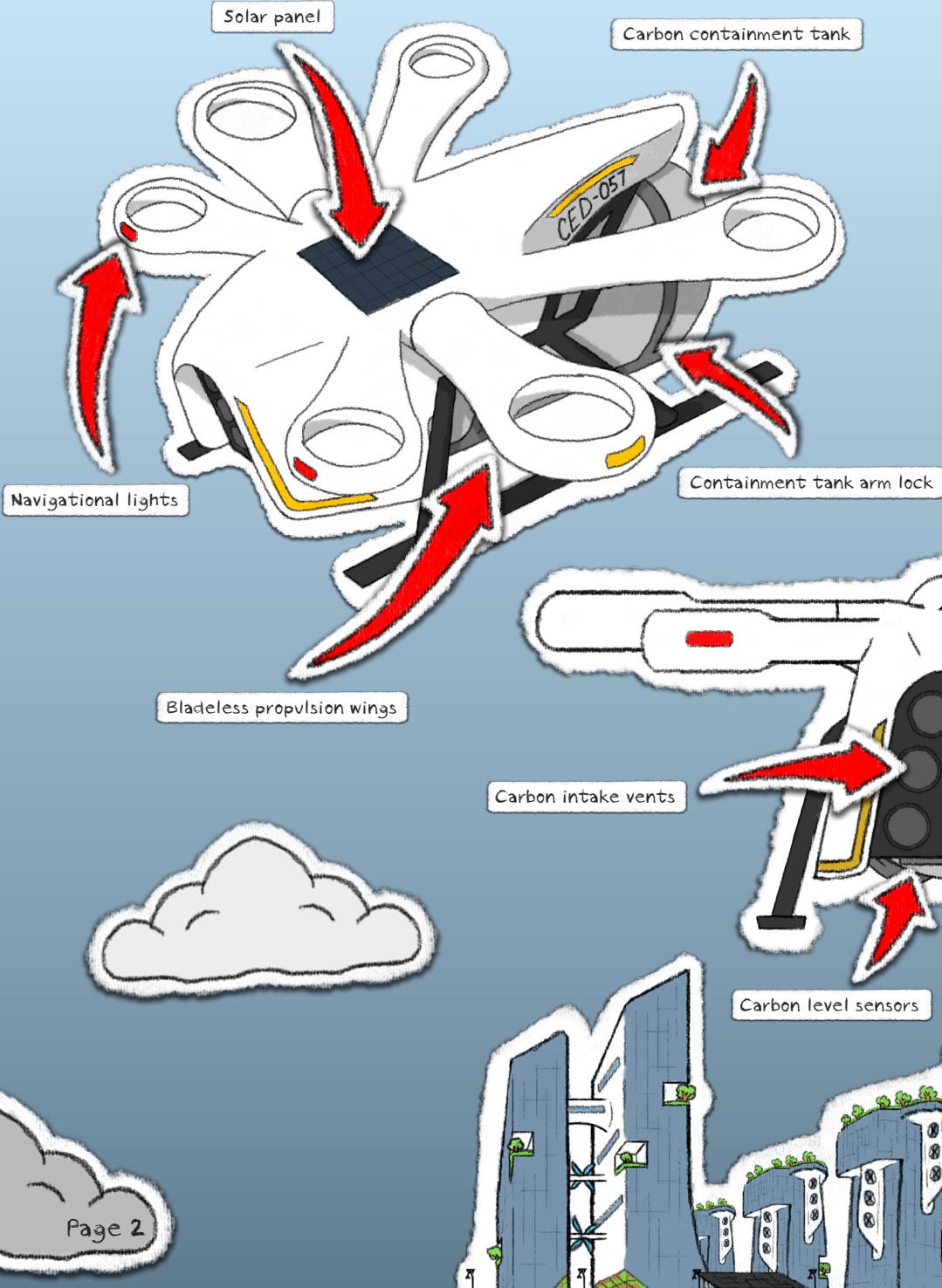
The City of Bribie stands as a disciplined bastion of eco-friendly technology and infrastructure. Overseen by a diligent local government, the city displays an unwavering dedication to sustainable living.

The city has implemented strict preservation laws such as a strict carbon limit that has been designed to reduce emissions and mitigate the effects of global warming. With AI and human patrols enforcing these regulations, the city protects its clean environment for the sanctuary wildlife and its citizens.

Within the city, technology is a powerful partner in the pursuit of sustainability. Every building on Bribie showcases the dedicated eco-conscious designs that minimise carbon emissions and maximises energy efficiency. By embracing clean energy solutions like solar and wind power, the city shuns those that are dependent on fossil fuels.

In short, the City of Bribie is a model of discipline, founded on the ideals of conservation and protection of all living things. The city is a symbol of human ingenuity and environmental stewardship, where the local government and citizens have put an incredible amount of effort to forge a society that prioritises the health and well-being of the natural world.





## Physical and Technical Components

The Carbon Enforcement Drone, A.K.A the CED boasts a range of advanced features. Its streamlined carbon fibre frame offers both durability and a non-threatening appearance. Thanks to the bladeless six wing propulsion feature, the drone uses wind energy for sustained flights. With the incorporation of a solar panel, its energy efficiency is increased allowing it to prolong its flight time. The integration of carbon level sensors, carbon dioxide intake vents, and a removable containment tank allows the drone to monitor and collect carbon. With the addition of high-visibility flight strips, and navigational lights, the drone can be easily identified during any time of day.

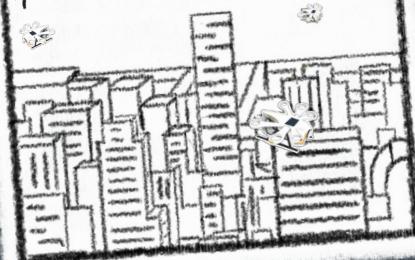
AI-integrated flight controls ensures that the drone will remain stable and allows for autonomous flight. Additionally, the drone is also equipped with remote control features for flexible operation.

High-vis flight strip

As a disciplined society, there will be carbon patrols and if a business/person/house is found to be exceeding the carbon emission limit, they will be fined, and a drone will be stationed in that area. This can be seen as a way to expose carbon exceeders and clean up the carbon. The captured carbon is then used to create renewable products.

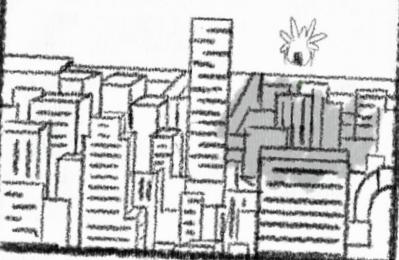
## Storyboard

1



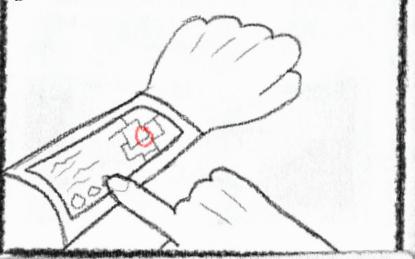
AI-controlled drones roaming the city, scanning for high-levels of carbon emissions.

2



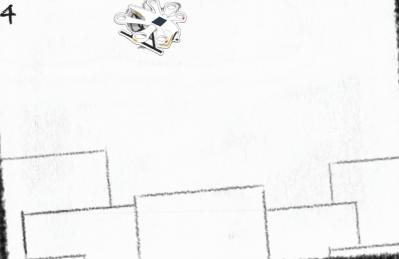
The drone detects irregular carbon levels that exceed the legal limit.

3



Nearest carbon agent is alerted to the high emission area on their government-issued wrist device.

4



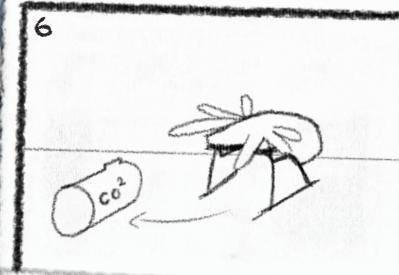
The drone hovers above the high emission area, capturing the carbon emissions until levels return to normal.

5



Agent fines the person/business that caused the high carbon levels under the carbon limit law.

6



After carbon levels return to normal, the drone will return to HQ. It is here where workers will empty the containment tank. The carbon can is then recycled into renewable products.





Designer



Dat is a third year student at QUT and is majoring in computer science, with minors in graphic design and interaction design.

