



Drone Dance

Project Overview

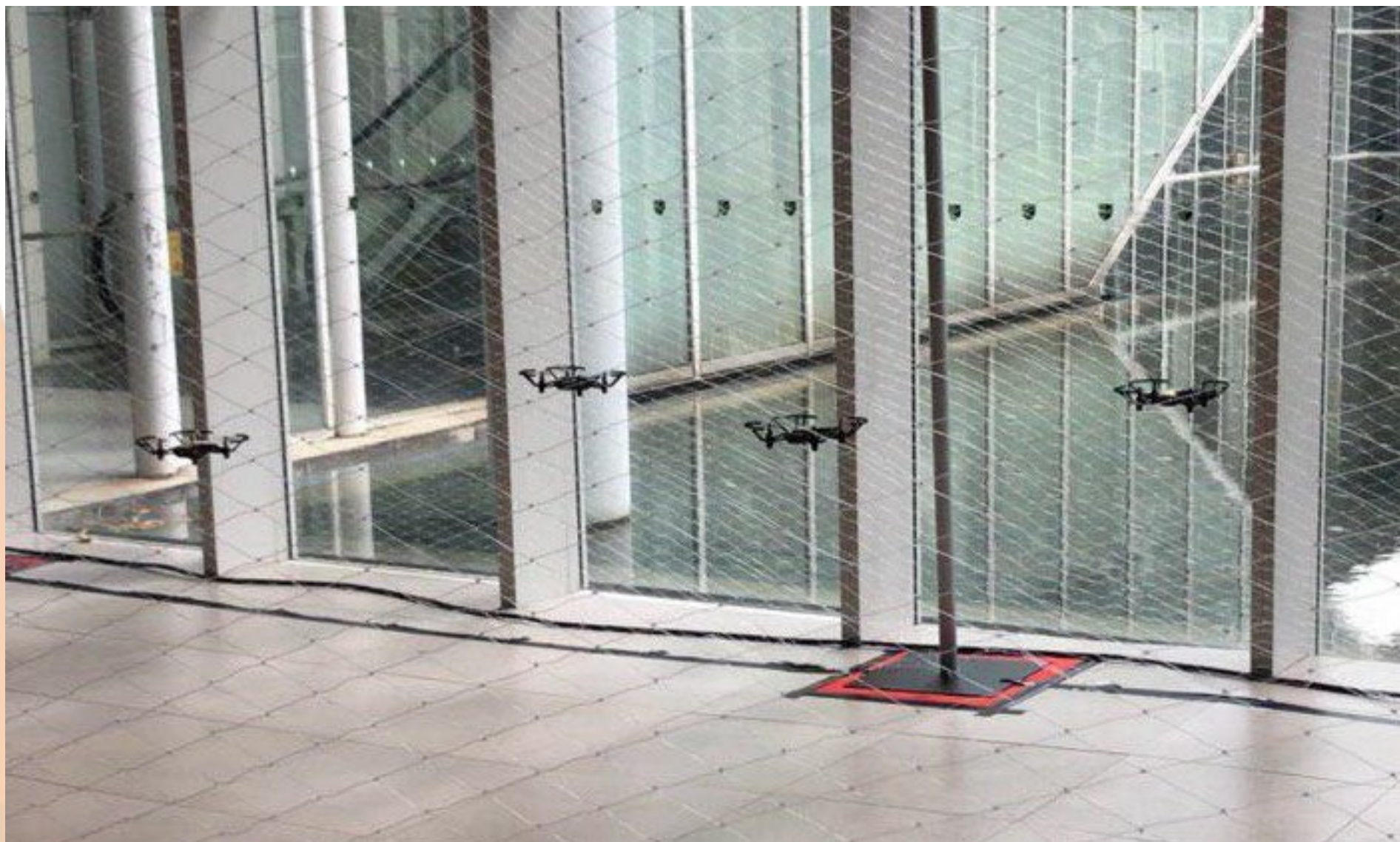
Problem: Drones are typically controlled via a single flight controller to a single drone. To command a network of drones, it is typically possible only with expensive and propriety technologies.

Requirements: To design, setup and demonstrate a coordinated flight for multiple drones using open source technologies and low end drones.

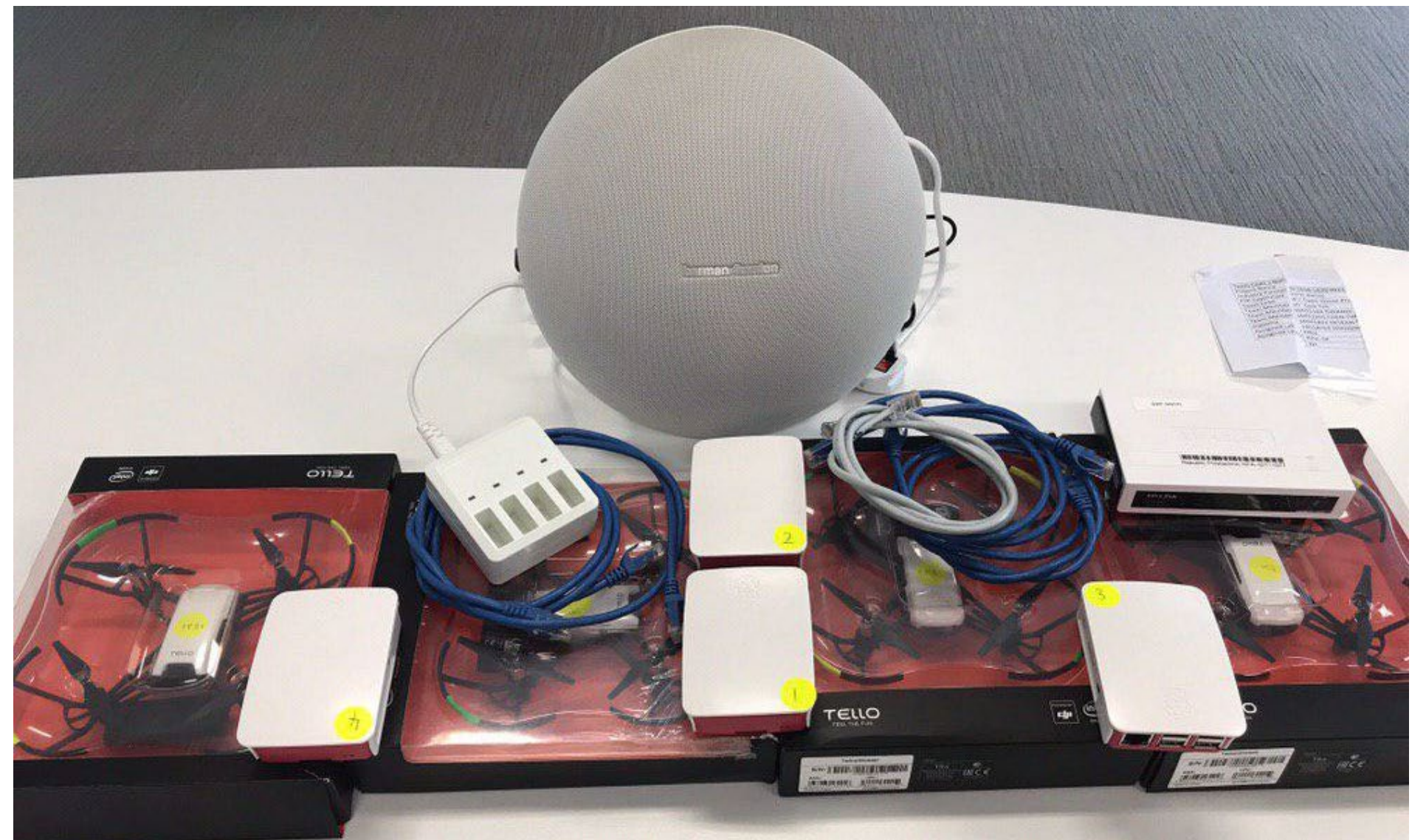
Solution: Leveraging on the MQTT's publisher-subscriber architecture, four Raspberry Pis are connected to four Tello drones to create a network of connected drones. A command centre is then used to control the four drones to perform a coordinated dance.

Technologies: Tello Drone, Raspberry Pi, MQTT, Python

Drone Dance Open House 2019



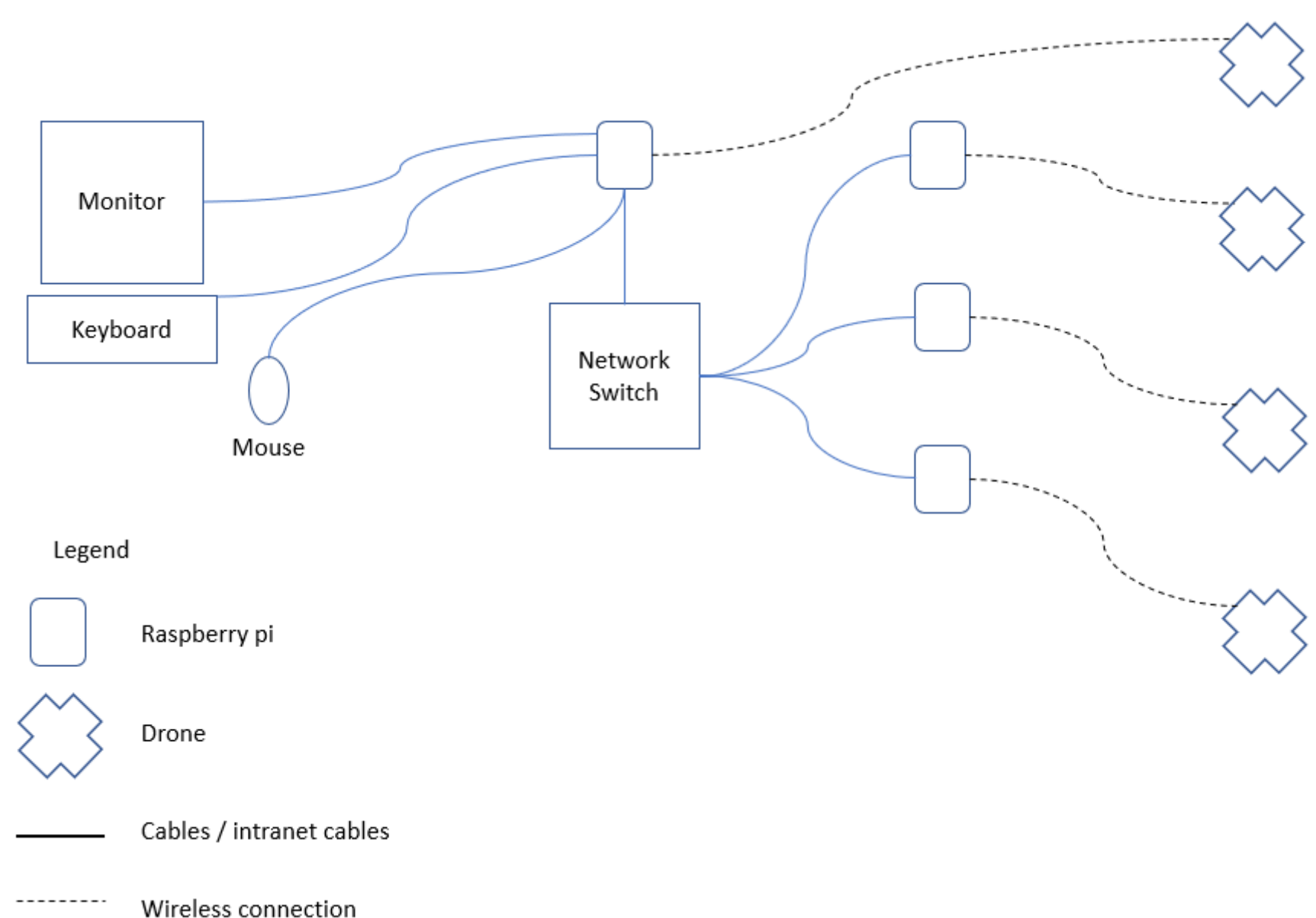
Equipment Used



Team Picture Taken with Drone



Architecture diagram



Team Members

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