Drone Holiday Camp

Zimbabwe Flying Labs team with a group of students at the Drone Camp holding different types of drones after completing basic practical flying training.

Students being taught by a Zimbabwe Flying Labs team member about how drones work and how they are used in various ways in different industries around the world.

OVERVIEW	
Flying Labs	Zimbabwe Flying Labs
Location	Harare, Zimbabwe

Date	19 - 21 December 2020
Length (number of days)	2 days
Sector program (optional)	YouthRobotics
Format	In-Person
Co-organizer if applicable	Precision Aerial
SDGs	GOAL 4: Quality Education

SCOPE & OUTCOMES	
Type of training	Youth/STEM training
Goal of the training	1. Create drone awareness 2. Train and empower youth and the workforce of the future
Expected outcome for participants	To learn about drones, drone safety and how to fly a drone.
Confirmed outcome after training	Participants were taught about what drones are used for in different use cases. They were taught and completed exercises on drone safety, drone parts and setup, basic pre-flight planning and how to take off and land safely.
Eventual next steps	Further training camps to be rolled out to develop skills such as weather reading, aerial maneuvers and conducting a flight mission.

PARTICIPANTS	
Profiles and number of participants	School children - 19
Name of participants' organizations	Various schools in Harare

Gender ratio	4 girls / 15 boys
Who paid for the training?	Paid by the participants
Participant fee rate (if applicable)	$20 USD
Scholarships offered?	None offered

CONTENT	
Training components	Training comprised of 3 parts: 1. Games - We incorporated hand-eye coordination games to help break the ice, get the children to connect and to break up the monotony of the theoretical training and to make it an enjoyable experience for the children. 2. Theoretical training - This covered basics on drone use cases, drone parts & setup and drone safety protocols. 3. Practical flying - This was done using the tello drones where each child was given the chance to operate the drone on their own.
Training resources used	• 2 Tablets, 1 smartphone, 1 TV Screen, 2 X DJI Tello drones, 1 X DJI Phantom 4 Pro, 1 X DJI Inspire 1 drone, 3 X custom built fpv racing drones
Approaches and methods used	• Training content was adapted to make it age appropriate for the 7 - 10 year target age group for the camp. We incorporated at least 2 games in each session to keep the children engaged and interested in the training. • The camp was hands-on and involved practising safety protocols and practical flying experience for each of the participants who attended. • The participants were taught about safe take off and landing checklist then practised it practically. • All participants were involved in practical training.