29/8/21

Updating of new plan

Things done:

- Changing of ideas
- Researching of guides
- Changing and updating of BOM (check for lower prices, lead time, specifications, etc)
- Finding a suitable drone
- Read up on lidar implementation (specifically for the model chosen)
- Preparation for presentation

Current state of project:

- Camera is now removed, only using lidar (might lead to problems such as wrong classification of other moving objects like pets)
- Lidar will be mounted on a tripod at human height level instead of the ceiling (no need for viewing angle as lidar scans 360 degrees)
- Removal of camera meant no need for additional servomotors

Problems faced:

- Current budget did not allow for a 3d camera
- downgrade from a 4gb to a 2gb jetson nano due to budget constraints

Work to be done:

- Finding a trained AI model (YOLO V3 and DeepSort) or a dataset of point cloud human data
- Downloading of the jetson nano SDK and finding the relevant libraries
- Preparation for presentation