Drone Reality Advanced Workshop Walkthrough

1. Visit <https://codrone.robolink.com/pro/blockly/>
2. Insert the battery into the drone
3. Click the pair button to open a menu listing nearby Bluetooth devices

A green box with a red border

Description automatically generated

1. Find and connect to the Petrone device

A screenshot of a computer

Description automatically generated

1. Click on the Keyboard Input section
2. Drag out the “when key press” block and change the dropdown to spacebar
3. Click Flight Commands
4. Drag out the “take off” block into the key press block

A screenshot of a computer

Description automatically generated

1. Click on the gray key press block and press CTRL C and CTRL V to duplicate the block
2. Change spacebar to backspace and delete the “take off” command
3. Click Flight Commands, and drag the “land” block into the backspace key press block

A screen shot of a computer

Description automatically generated

1. Once again copy and paste the key press block
2. Change the dropdown to the “w” key, and delete the command inside
3. Click on the loops section, and drag the “repeat while do” block into the w key press block
4. Now, click on the Keyboard Input section, and drag the smaller “when key press” block into the “repeat while do” block
5. To complete the block, drag in a “go forward” block from Flight Commands, and change the time to 0.1 seconds. The block should look like this:

A puzzle pieces with text

Description automatically generated with medium confidence

1. Now, we need to add movement in the 5 other directions. Click the key press block, then press CTRL and C once, then CTRL and V five times to make five copies of the block
2. Once the blocks are spread out, change the keys on one of them to “s” and the action to “go backward”

A puzzle pieces with words

Description automatically generated with medium confidence

1. On a different block, change the key to “a”, and the action to “go left” for moving left
2. Then, change the key of another block to “d”, and the action to “go right” for moving right
3. With the two remaining blocks, change the key of one to “e” and the key of the other to “q”
4. On the “e” block, change the action to go up, and on the “q” block, change the action to go down
5. The code should look like this

A screenshot of a computer screen

Description automatically generated

1. Run the code and control the drone using the keyboard!