# Project Configurability and Field Deployment Plan:

## Project Configurability:

### Reusability:

* The nucleo board is utilising zephyr allowing it to be easily installed onto other zephyr supported platforms.
* The TurtleBot is run through a python script that has been converted into a python executable file.
* Communication between the m5core2 and nucleo board is done through MQTT communication allowing the m5core2 to be replaced if necessary.

### Reconfigurations or possible addition features:

* The ultrasonic sensors could be replaced with other sensors allowing variable inputs to be used. An example is utilising Lidars for proximity detection instead of ultrasonics.
* The nucleo board could be replaced by another board that has additional features such as the nRF52840 DK board which has the additional ability to utilise low energy Bluetooth capabilities.

## Field Deployment Plan:

### Ease of use:

* The TurtleBot is run through a python script that has been converted into a python executable file.
* M5core2 only requires itself to be turned on, it has already been programmed.