# KEY LEARNINGS

1. Learnt how to communicate between Tiva and BBG using UART.
2. Learnt how to implement UART drivers on FreeRTOS.
3. Learnt to interface sensors & actuators - BME280, Groove Moisture Sensor, LCD DMC16433.
4. Learnt how to write SPI drivers on FreeRTOS.
5. Learnt how to write ADC drivers on FreeRTOS.
6. Worked extensively on FreeRTOS message queues, timers, scheduling and Interrupt Handling
7. Learnt how to implement Fault detection and tolerance behaviour.
8. Learnt how to use FreeRTOS synchronization techniques – semaphore, mutexes.