# KEY LEARNINGS

1. Learnt to use UART on Beagle Bone Green. Learnt how to use Termios on Linux to establish UART communication and to write UART Drivers on Linux.
2. Learnt how establish inter-board communication involving free-RTOS and Embedded Linux.
3. Gained experience in writing SPI drivers on FreeRTOS.
4. Gained experience in working on ADC on FreeRTOS.
5. Gained experience in using BME280 Humidity Sensor, Groove Moisture Sensor and Groove Buzzer.
6. Got a lot of hands on experience in working on Debain for embedded applications including pthreads,POSIX message queues, timers and file handling.
7. Implemented process synchronization methods – semaphores & Mutexes.
8. Gained significant understanding of Fault-tolerant systems and failure handling.
9. Learnt to use GCC-Linaro on Eclipse IDE (Windows) for compiling and debugging using GDB Debugger.