**Final Year Project Weekly Updates:**

**19TH Oct – 23rd Oct:**

**What I did last week:**

Researched more in depth about the protocols that are used in cars and about the can-bus system that is used.

**What I am doing this week:**

Researching what micro controller would suit my project and researching more about an electronic OBD ecu protocol simulator. Working on the proposal.

**Are there any blockers:**

No.

**26TH Oct – 30th Oct:**

**What I did last week:**

Researched what micro controller would suit my project and researched more about an electronic OBD ecu protocol simulator. Working on the proposal.

**What I am doing this week:**

Researching what pins are needed in the OBD plug and finalising the proposal.

**Are there any blockers:**

No.

**2nd Nov – 6th Nov:**

**What I did last week:**

Researching what pins are needed in the OBD plug and finalising the proposal.

**What I am doing this week:**

Started working on the android app development in android studio.

**Are there any blockers:**

No.

**9th Nov – 13th Nov:**

**What I did last week:**

Started working on the android app development in android studio.

**What I am doing this week:**

More development on the android User interface and development on the Canbus side. Reading documentation on the devices I will be using.

**Are there any blockers:**

No.

**16th Nov – 20th Nov:**

**What I did last week:**

More development on the android User interface and development on the Canbus side. Reading documentation on the devices I will be using.

**What I am doing this week:**

Development on the Canbus. Reading more documentation.

**Are there any blockers:**

No.

**23rd Nov – 27th Nov:**

**What I did last week:**

More development on the android User interface and development on the Canbus side. Reading documentation on the devices I will be using.

**What I am doing this week:**

MoreDevelopment on the Canbus. Reading more documentation.

**Are there any blockers:**

Yes – hardware has not arrived.

**30th Nov – 4th Dec:**

**What I did last week:**

MoreDevelopment on the Canbus. Reading more documentation.

**What I am doing this week:**

Reading more into My SQL and AWS, trying to work with MCUxpresso as hardware has not arrived.

**Are there any blockers:**

Yes – hardware has not arrived.

**7th Dec – 11th Dec:**

**What I did last week:**

Reading more into My SQL and AWS, trying to work with MCUxpresso as hardware has not arrived.

**What I am doing this week:**

Started coding an example in MCUxpresso the shows the internal loopback working in the freedom k64f. Progress slow due to assignments and exams.

**Are there any blockers:**

No.

**14th Dec – 18th Dec:**

**What I did last week:**

Started coding an example in MCUxpresso the shows the internal loopback working in the freedom k64f. Progress slow due to assignments and exams.

**What I am doing this week:**

Got my hardware setup and started coding my own example that replicates the example as the configuration tool can be used to setup can bus and the example project sets can bus up in the code.

**Are there any blockers:**

No.

**4th Jan – 8th Jan:**

**What I did last week:**

Got my hardware setup and started coding my own example that replicates the example as the configuration tool can be used to setup can bus and the example project sets can bus up in the code.

**What I am doing this week:**

Got the internal loop working, moving onto the ecu simulator but having problems with the transceiver. Currently troubleshooting the CAN H and CAN L wires checking the resistance and voltages to make sure that they are working properly.

**Are there any blockers:**

No.

**25th Jan – 29th Jan:**

**What I did last week:**

Got the internal loop working, moving onto the ecu simulator but having problems with the transceiver. Currently troubleshooting the CAN H and CAN L wires checking the resistance and voltages to make sure that they are working properly.

**What I am doing this week:**

Worked on the Wifi and got the Wifi board connecting using examples now trying to get an AWS example up and running. Started Project report and poster.

**Are there any blockers:**

No.

**25th Jan – 29th Jan:**

**What I did last week:**

Got the internal loop working, moving onto the ecu simulator but having problems with the transceiver. Currently troubleshooting the CAN H and CAN L wires checking the resistance and voltages to make sure that they are working properly.

**What I am doing this week:**

Worked on the Wifi and got the Wifi board connecting using examples now trying to get an AWS example up and running. Started Project report and poster.

**Are there any blockers:**

No.

**1st Feb – 5th Feb:**

**What I did last week:**

Worked on the Wifi and got the Wifi board connecting using examples now trying to get an AWS example up and running. Started Project report and poster.

**What I am doing this week:**

Still working with the AWS and WIFI and adding more in the project report and the poster. Also working on the external loop of the Canbus.

**Are there any blockers:**

No.

**8th Feb – 12th Feb:**

**What I did last week:**

Still working with the AWS and WIFI and adding more in the project report and the poster. Also working on the external loop of the Canbus.

**What I am doing this week:**

AWS IOT core is connected to the Freedom K64f via the Wi-Fi board and I can monitor messages on AWS, I am using the accelerometer at the moment as I still working on the Canbus to transmit messages to AWS.

**Are there any blockers:**

No.

**15th Feb – 19th Feb:**

**What I did last week:**

AWS IOT core is connected to the Freedom K64f via the Wi-Fi board and I can monitor messages on AWS, I am using the accelerometer at the moment as I still working on the Canbus to transmit messages to AWS.

**What I am doing this week:**

Android application that will be used to display the data is laid out with the data that I will expect to receive. I want to add graph into the application, but I will look into that down the road when I have the basics working and I am happy with them. The android application is connected to AWS and Is receiving the messages via AWS Shadow which enables me to have my project serverless.

**Are there any blockers:**

No.

**22nd Feb – 26th Feb:**

**What I did last week:**

Android application that will be used to display the data is laid out with the data that I will expect to receive. I want to add graph into the application, but I will look into that down the road when I have the basics working and I am happy with them. The android application is connected to AWS and Is receiving the messages via AWS Shadow which enables me to have my project serverless.

**What I am doing this week:**

Android Application is ready to receive data from Canbus as I will change to working with the Canbus again to get it communicating and the data passed to the phone via AWS.

**Are there any blockers:**

No.

**1st Mar – 5th Mar:**

**What I did last week:**

Android Application is ready to receive data from Canbus as I will change to working with the Canbus again to get it communicating and the data passed to the phone via AWS.

**What I am doing this week:**

Started looking into graphing real time data in android studio. Have sample data going from the K64F to the Android application.

**Are there any blockers:**

No.

**8th Mar – 12th Mar:**

**What I did last week:**

Started looking into graphing real time data in android studio. Have sample data going from the K64F to the Android application.

**What I am doing this week:**

Still working on Can bus and have the basic code working and connected to the board. Working on getting the data to the android application.

**Are there any blockers:**

No.

**15th Mar – 19th Mar:**

**What I did last week:**

Still working on Can bus and have the basic code working and connected to the board. Working on getting the data to the android application.

**What I am doing this week:**

Putting the Canbus and AWS together in one project. Using Queues to send data between tasks.

**Are there any blockers:**

No.

**22nd Mar – 26th Mar:**

**What I did last week:**

Putting the Canbus and AWS together in one project. Using Queues to send data between tasks.

**What I am doing this week:**

**Working on using Free RTOS tasks to have two tasks and interchange between tasks every couple of seconds. Looking at using a data struct to transfer data.**

**Are there any blockers:**

No.

**12th Apr – 16th Apr:**

**What I did last week:**

**Working on using Free RTOS tasks to have two tasks and interchange between tasks every couple of seconds. Looking at using a data struct to transfer data.**

**What I am doing this week:**

**Still working with the Free RTOS tasks to try get the two tasks working together.**

**Are there any blockers:**

No.

**19th Apr – 23rd Apr:**

**What I did last week:**

**Still working with the Free RTOS tasks to try get the two tasks working together.**

**What I am doing this week:**

**Plans changed to get the Can bus side and AWS and Android application fully done as time constraints may/will hinder the final project.**

**Are there any blockers:**

No.

**26th Apr – 30th Apr:**

**What I did last week:**

**Plans changed to get the Can bus side and AWS and Android application fully done as time constraints may/will hinder the final project.**

**What I am doing this week:**

**Got CAN Bus and AWS Linked together and working with Free RTOS implemented to send the data between tasks.**

**Are there any blockers:**

No.