FYP Title: Mobile ECG

# Objectives:

Make wearable Hardware Device to Acquire ECG Signal, Transfer this signal to Android Mobile. Real time ECG Monitoring. Apply Signal Conditioning Algorithms. Maintaining Log of ECG Signal and send to a heart Specialist

We are going to provide basic 3 facilities

1. **Home ECG Service**

This service will allow patients to provide their doctors with frequent, reliable high-quality records. Also check out our affordable clinical-grade device designed for doctors and patients.

1. **Interpretation Service**

Have your ECG record (and medical history) analyzed over the internet by the heart specialist of your choice.

1. **Doctor-to-doctor Service**

This service will allow other doctors to send data to heart specialists and have a consultation with them.

# Schedule of Phase 1

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| **Start** | **End** |  | Presentation on ADS1298 |  |
| 03-03-16 | 06-04-16 | Bluetooth interfacing | Graph View |
| 06-04-16 | 19-04-16 | Layout of Application |  |
| 19-04-16 | 26-04-16 | send data from Arduino to android |
| 26-04-16 | 03-05-16 | Circular buffer | MATLAB implementation of signal reconditioning |
| 26-04-16 | 10-05-16 | Filter Simulation of 3-lead |
| 10-05-16 | 17-05-16 | Filter simulation and Power Supply for ADS |  |
| 17-05-16 | 31-05-16 | Instrumentation amplifier design |  |
| 01-06-16 | 10-06-16 | programming of microcontroller for ADS | View ECG signal on android app |
| 01-06-16 | 25-06-16 | setting of ADS ,signal input ,Power supply |
| **End of Semester** | | | | |