Week 1 Client Meeting

Presentation of company – MF Technology

Live ECG, haem/oxy measurement with Raspberry PI

Data analytics platform for healthcare to monitor people with chronic diseases outside hospital – mitigates hospital anxiety

Automatic blood pressure measurement without invasive cuff

Low cost tech for poorer countries, delivered through charities and NGOs

Embedded ML, sending abnormal data using IoT through the cloud so it can be processed by clinicians

Ability to generate a feed about patient activity

For acutely ill patients

Need novel components

Raspberry Pi compute module connects to development board to ECG and PPG

ECG, PPG, temperature sensors

Drive respiration waveform from PPG and ECG data to detect respiratory issues such as sleep apnoea

Design ‘hat’ for raspberry Pi to improve existing functionality

Limit: £500

3D printing case for breadboard

Look into Healthy Pi and try and improve its functionality (speed, resolution and processing capabilities)

Send data to cloud

Once a week skype call (Friday early mornings best)