THE DREAM TEAM: AN RLS MONITOR DESIGN PROPOSAL

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DATA FLOW PROCESS

≓ Record data over 5 day period ransferred from device to clinician's computer

processed through filters or through clinician controlled filters

data on an interactive GUI

ப் Final Report

TARGET DEVICE SPECIFICATIONS

Data Collection of limb acceleration

Data rendering and identification on PC

Wirelessly transmitted data

Sealed enclosure

Cleanable device

No user interface for patient

Battery life of at least 5 days



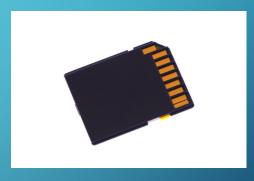
DATA ACQUISITION











Movement Detected

Picked up by accelerometer on circuit board

Stored in internal memory





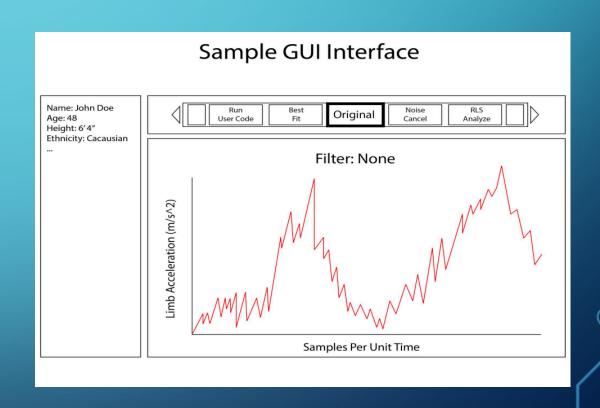




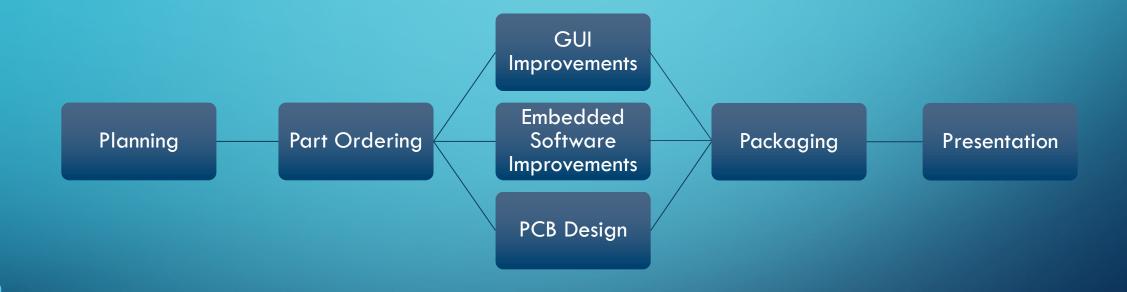
Data wirelessly transmitted once charging is detected

SOFTWARE DEVELOPMENT AND INTEGRATION

- Graphical interface for clinicians to view data
- Ability to execute filters that help identify movements
- Wireless data transfer



SCHEDULE



STATUS Meeting Expectations