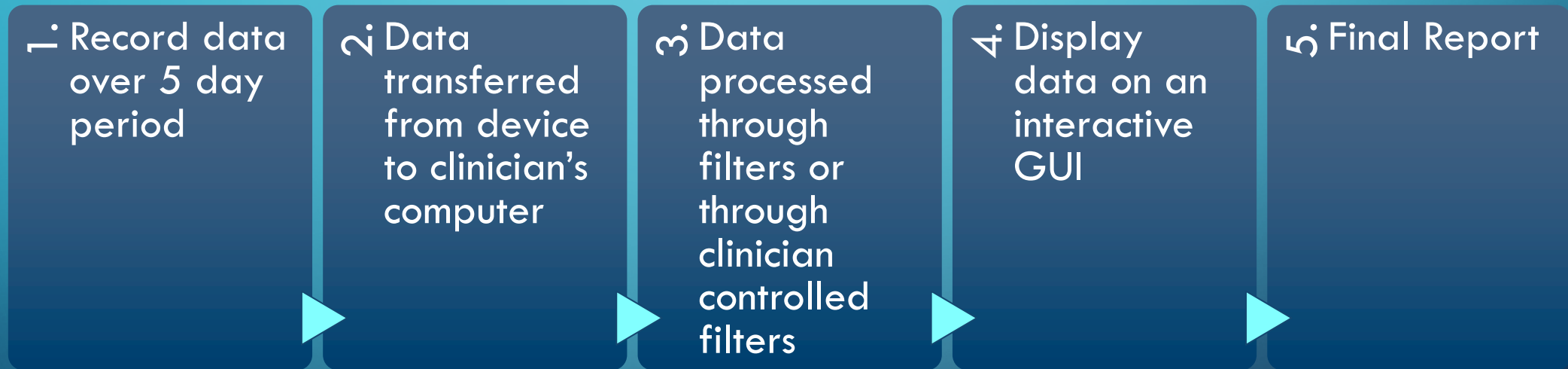




# THE DREAM TEAM: AN RLS MONITOR DESIGN PROPOSAL

ISABEL ANDERSON, MAURICIO BUILES, JAMES GRUSY, XAVIER WILLIAMS

# DATA FLOW PROCESS



# 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

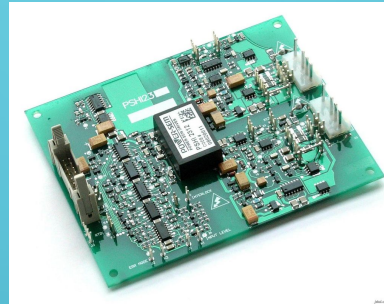
Battery life of at least 5 days



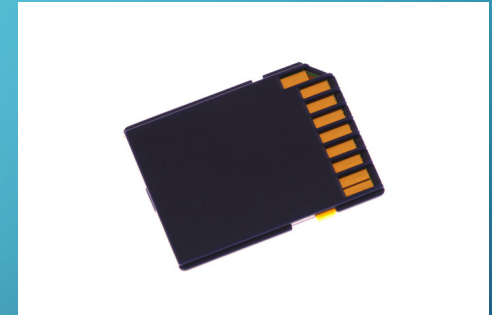
# DATA ACQUISITION



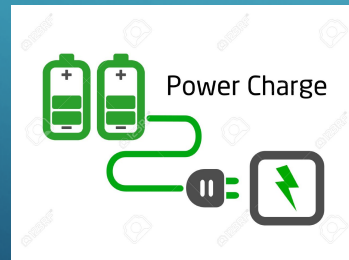
Movement Detected



Picked up by accelerometer  
on circuit board



Stored in internal  
memory

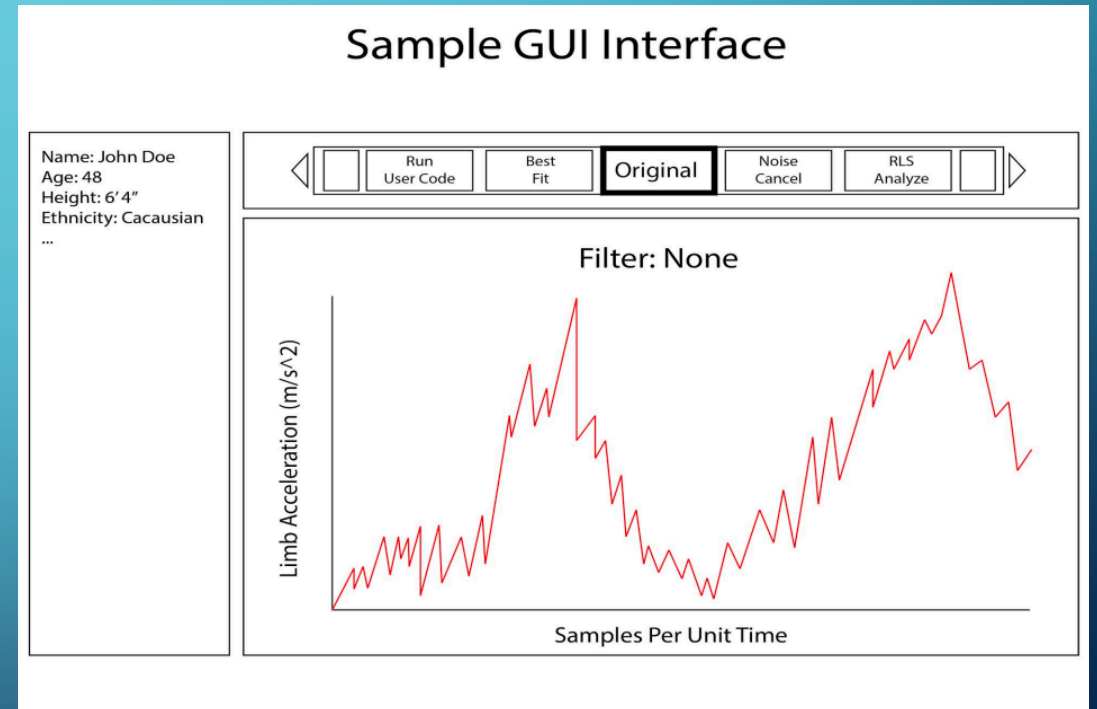


Data wirelessly transmitted once  
charging is detected

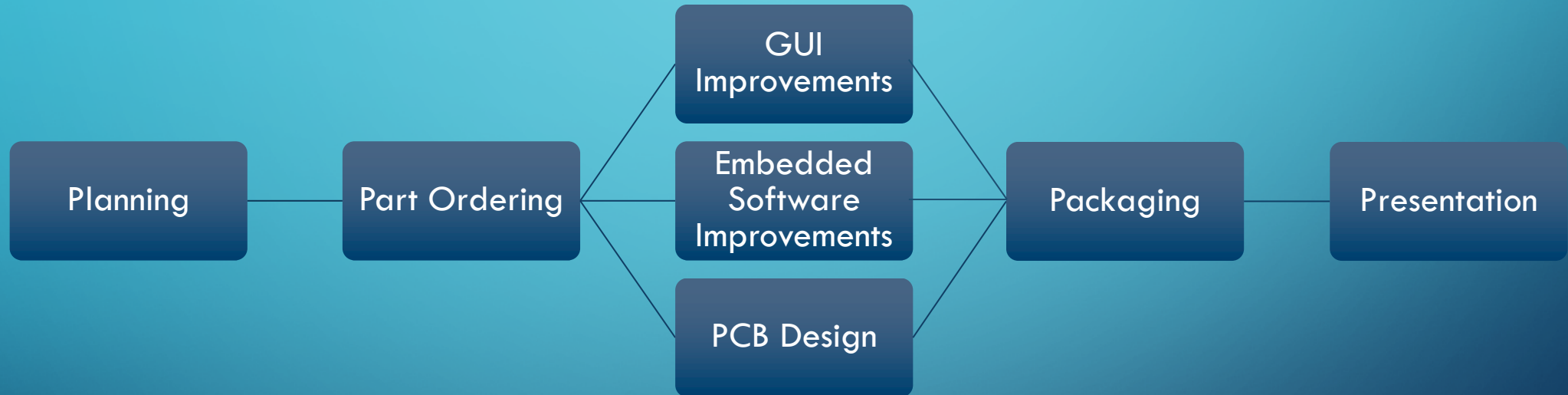


# SOFTWARE DEVELOPMENT AND INTEGRATION

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



# SCHEDULE





# STATUS

○ Meeting Expectations

