

SUMMARY

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1 Summary of Work

1.1 Hardware Stuff

- Measure skin conductance
- Accelerometer Capabilities in hardware
- Undervoltage/Overvoltage lockout circuit
- Rechargeable Lithium-Ion battery
- Digital Potentiometer (for skin calibration)
- Wireless Transceiver (XBee)
- Programmable Microcontroller with SPI interface
- THREE programmable buttons
- LEDs for power, I/O (Composite colors not possible)
- Programmable LED
- Event Marking button

1.2 Software Stuff

- Visualize up to 100 sensors
- Scalable back-end
- Event Marking capability for monitoring
- Seperate CSV files for each device
- Galvanic Calculations
- Load old data
- Choose what sensors to listen too
- Choose sensors to visualize
- Choose sensors to listen too
- Visualize market events
- Seperate csv files based on marker times (for data processing)
- visualize aggregate data