

Nick Arango EEG checklist

Commitment:

- Differential wet passive EEG/EMG probe
- Operation from +- 9V battery
- Display using computer audio jack
- 30dB SNR between .1 and 40 Hz

Expected Goal:

- Differential dry active EEG probe pair
- 30dB SNR between .1 and 40 Hz
- Operation from a single 9V battery
- Linear optical isolation between computer and EEG
- Active DRL probe to improve CMMR of differential input

Stretch Goal:

- Two sets of dry active EEG probes attached to velcro headband
- 40dB SNR between .1 and 40Hz
- FM modulation of probe differential signals for transmission to computer
- Active magnetic shielding of EEG probe leads using return current
- Active shielding between EEG needles and the first stage probe amplifier