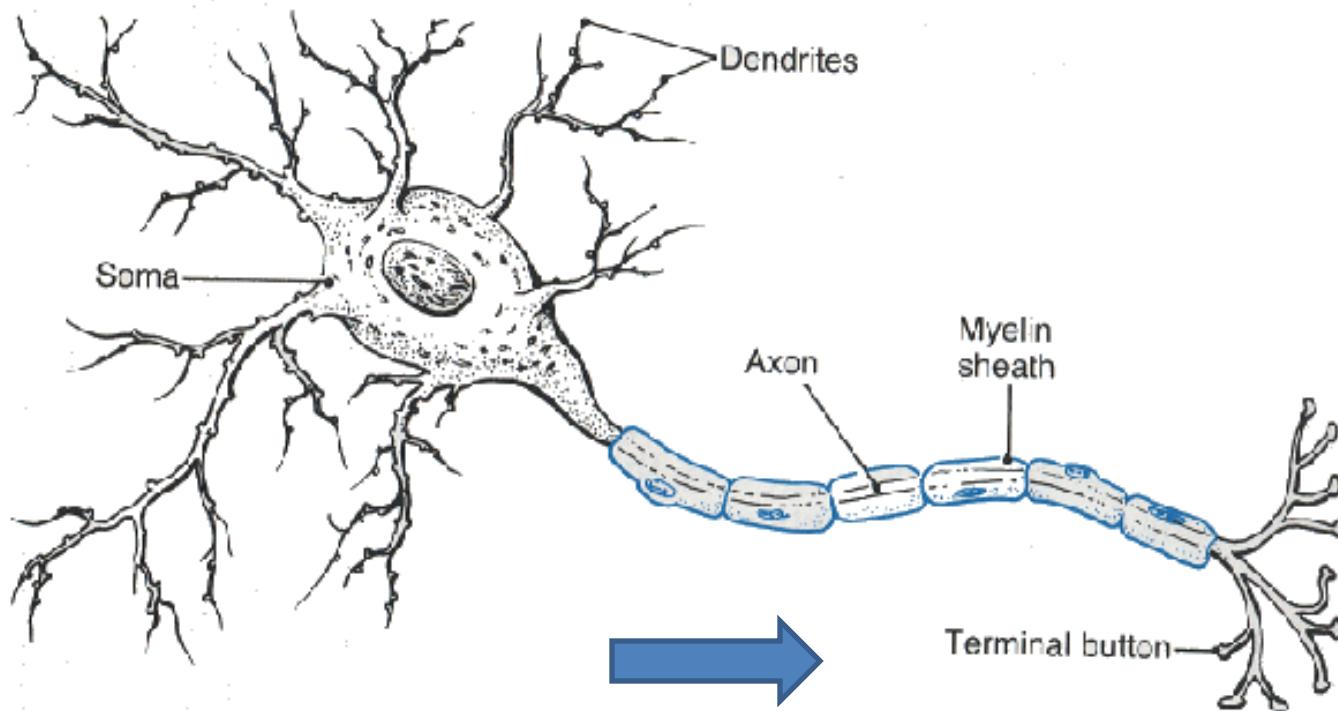


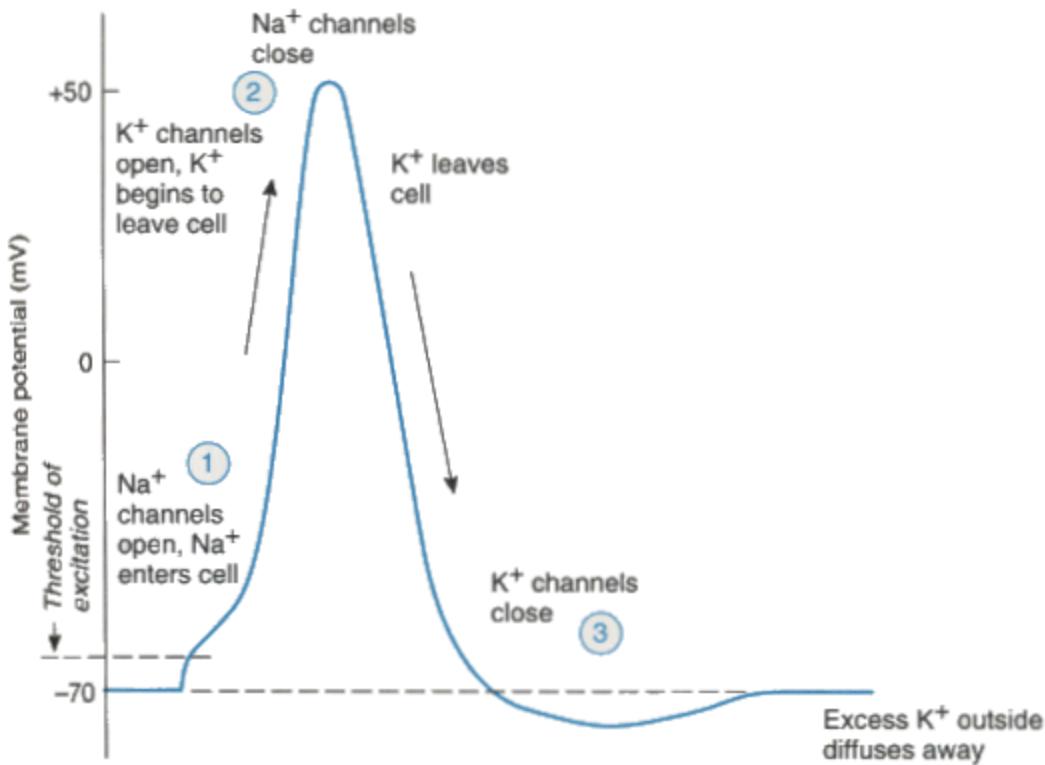
# Electroencephalography (EEG)

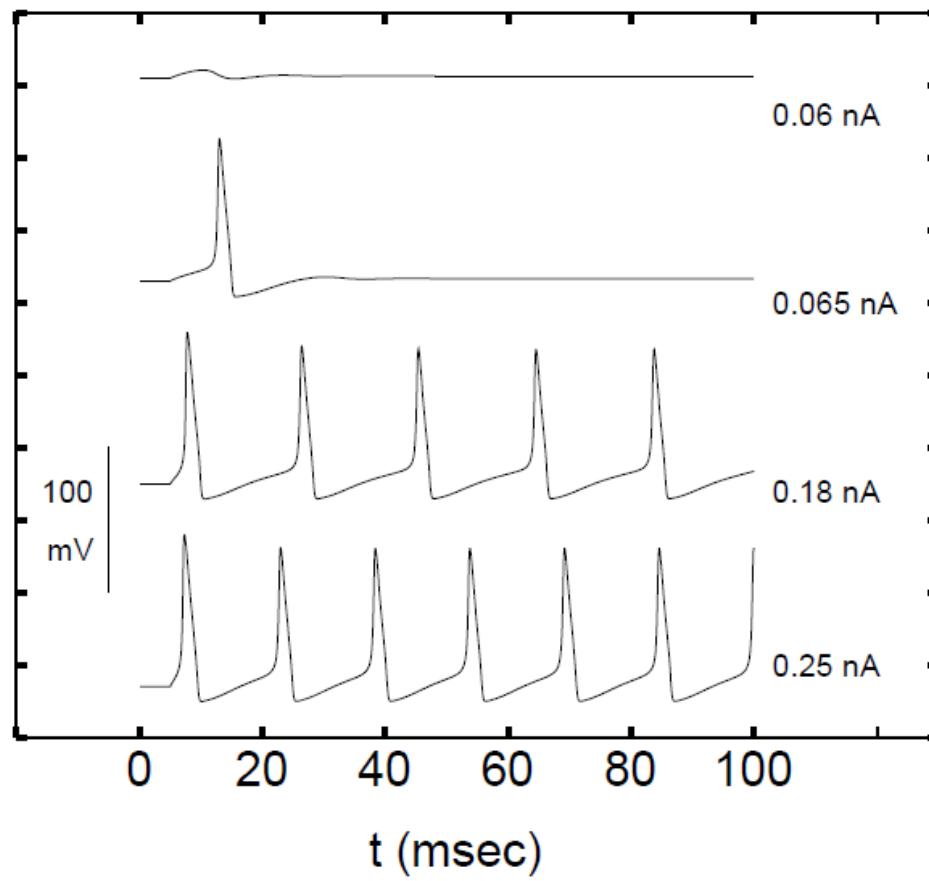
Amanda Spencer

# Neuron

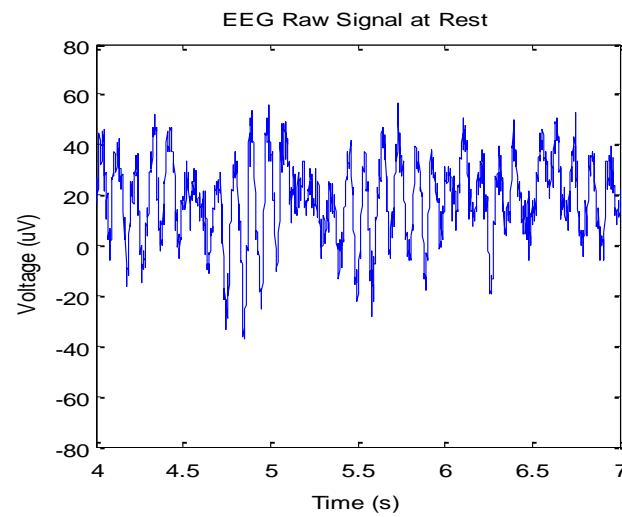
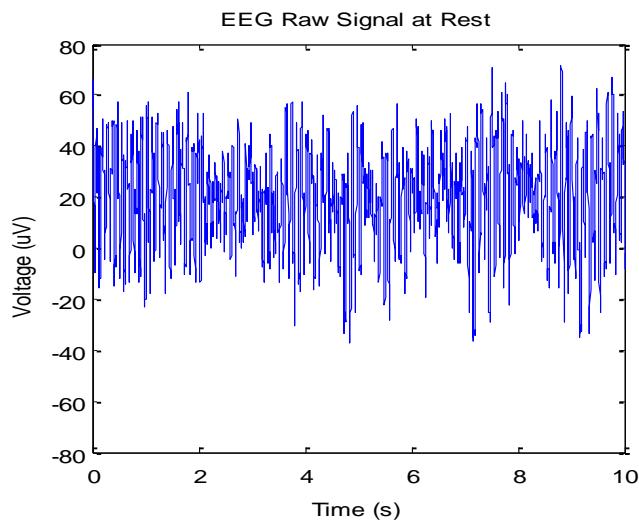


# Action Potential

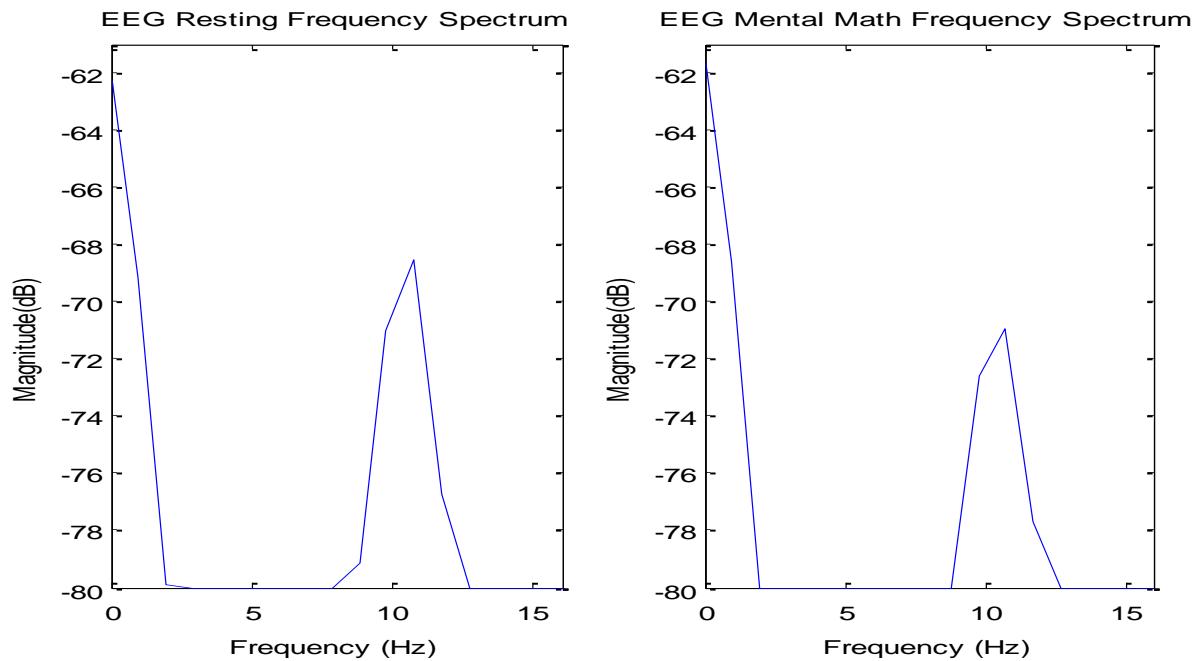




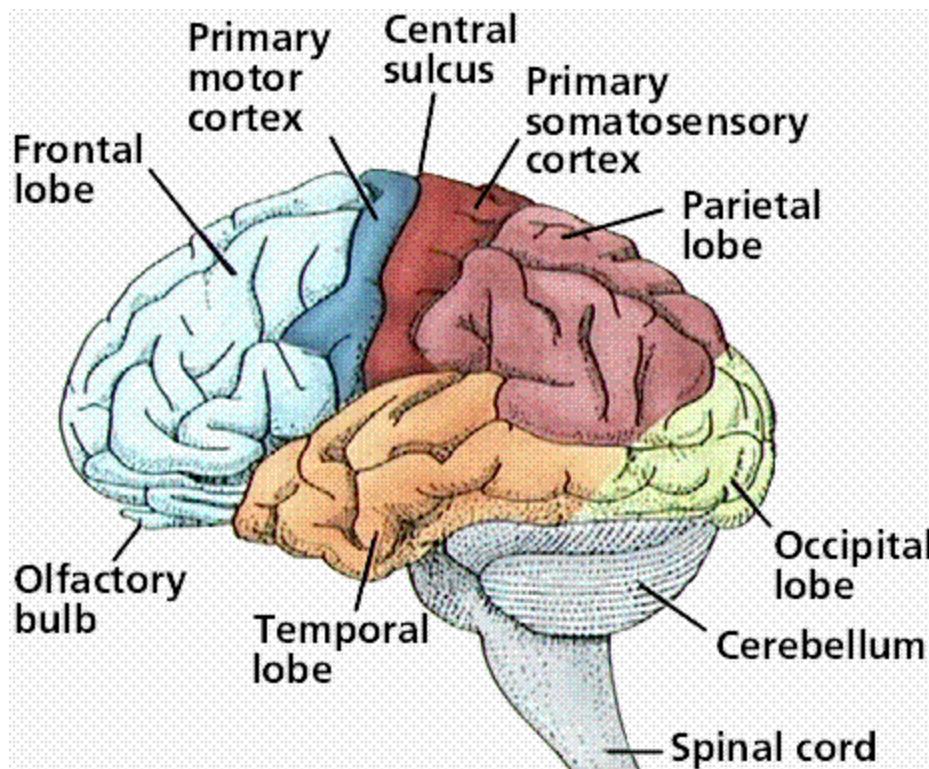
# Raw EEG



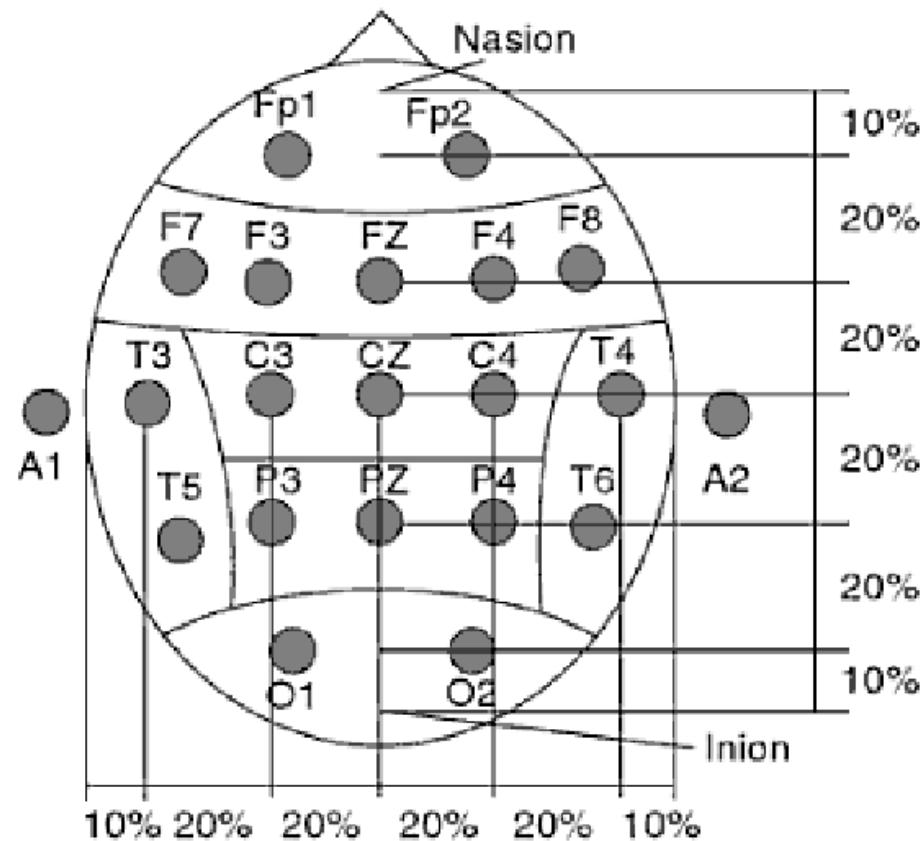
# Frequency Domain



# Areas of the Brain

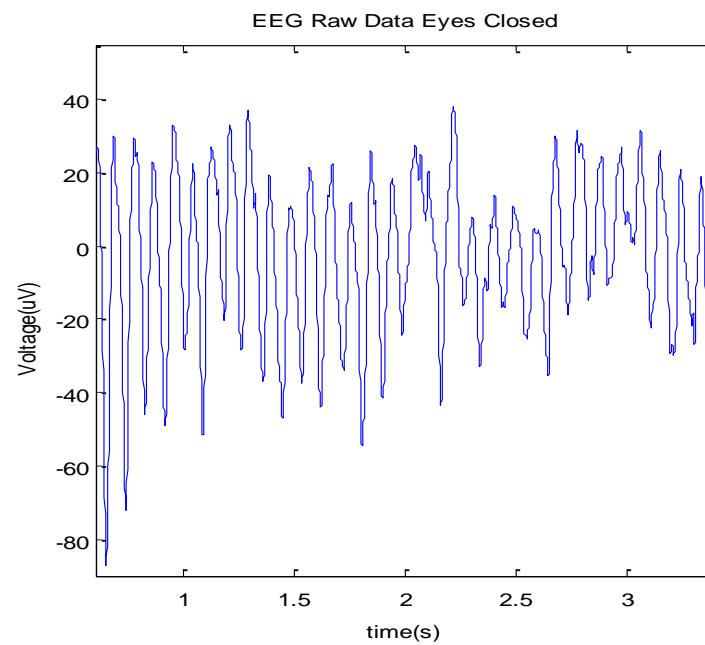
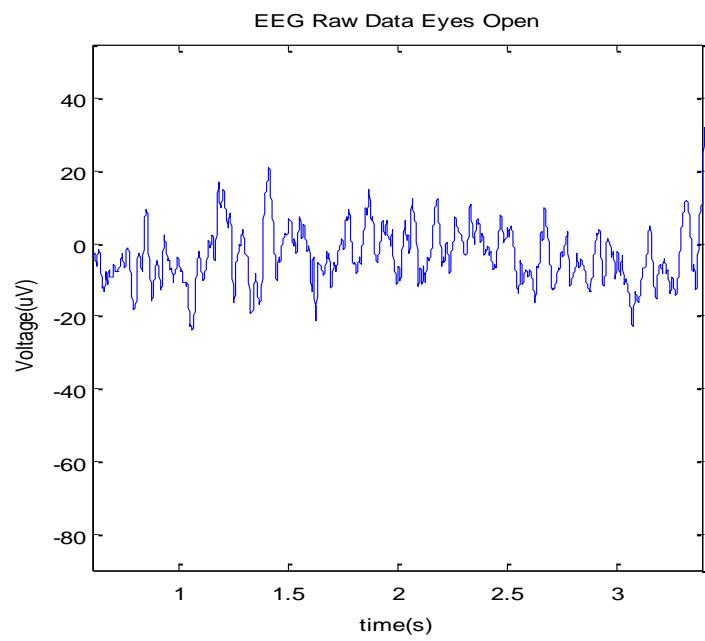


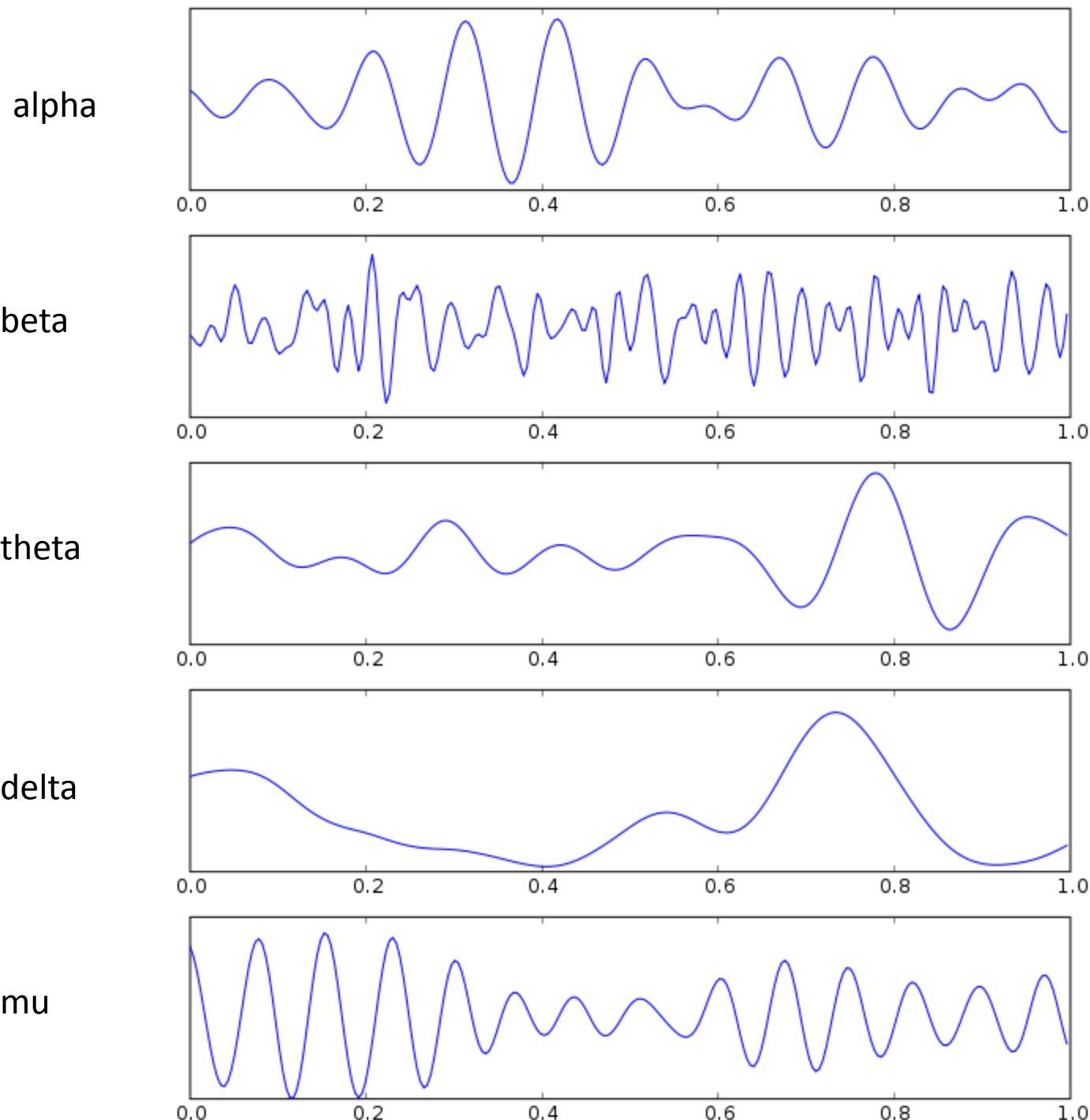
# Electrode Placement



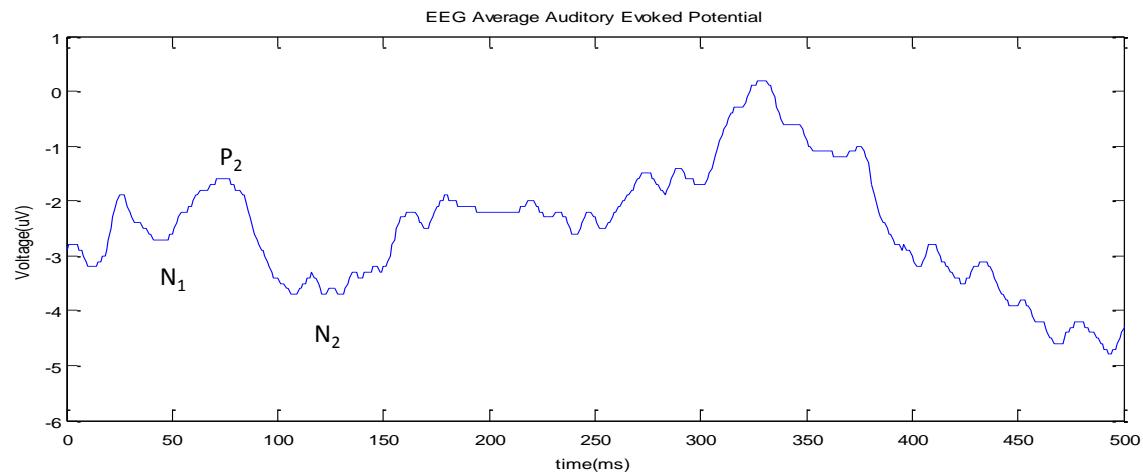
# Typical Waves

Name	Frequencies	Principal characteristics
alpha	8-12 Hz	seen when subject is relaxed with eyes are closed
beta	13+ Hz	seen in frontal during mostly during sleep
theta	4-7 Hz	seen during light sleep
delta	.5-3.5 Hz	seen during deep sleep
mu	7-11 Hz	occur unless inhibited by movement
lambda	Sharp Waves	sometimes occur in response to visual stimulation

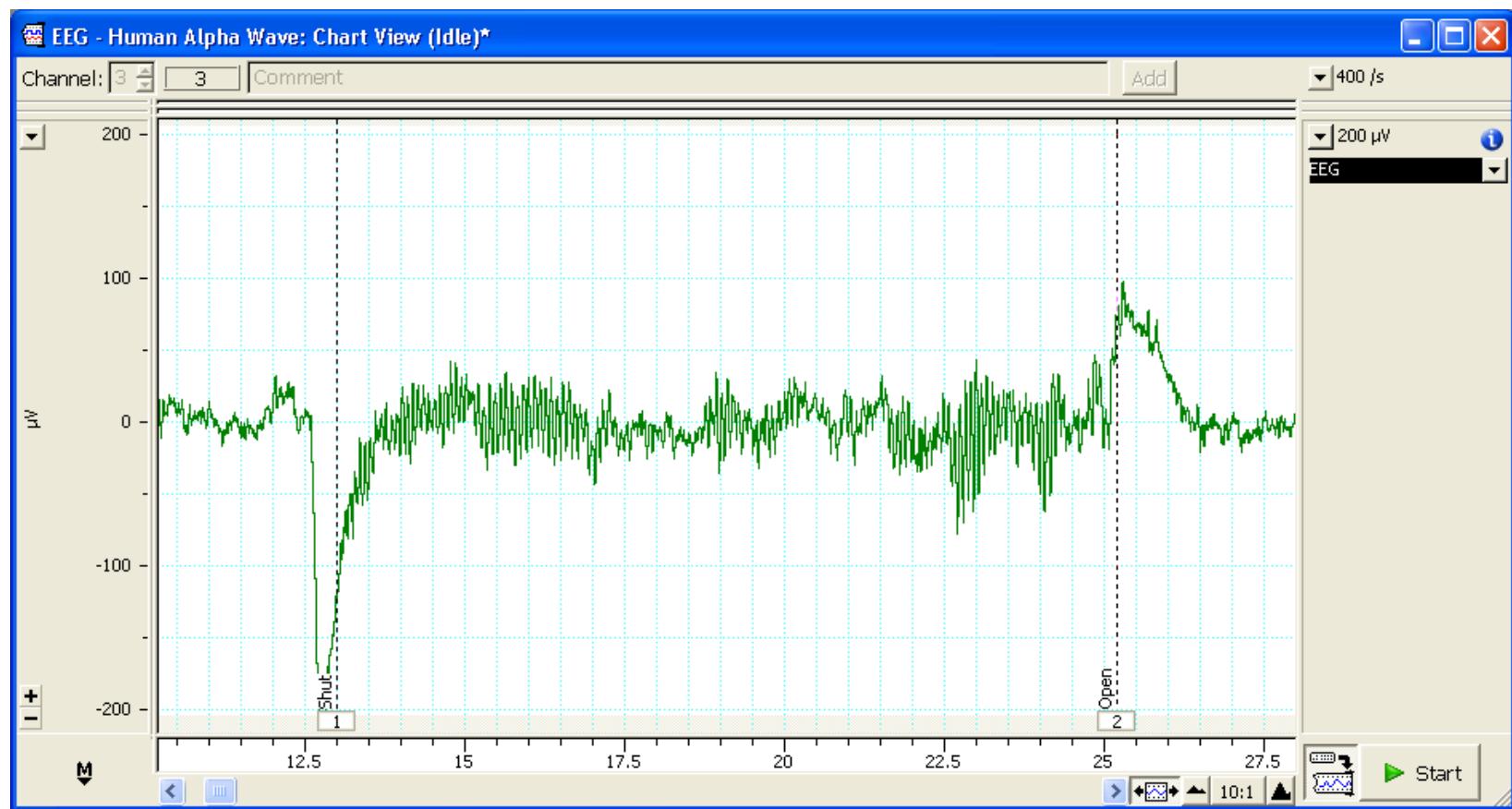




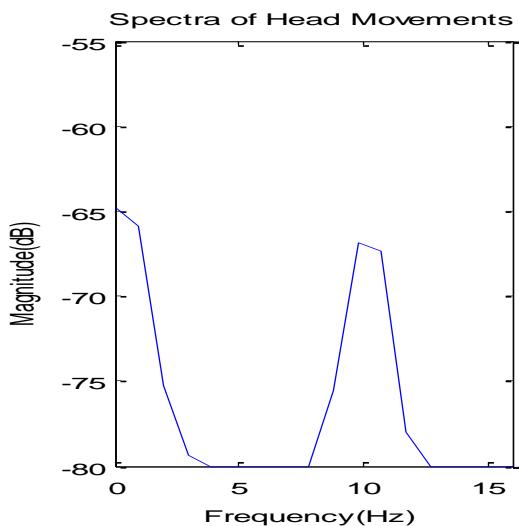
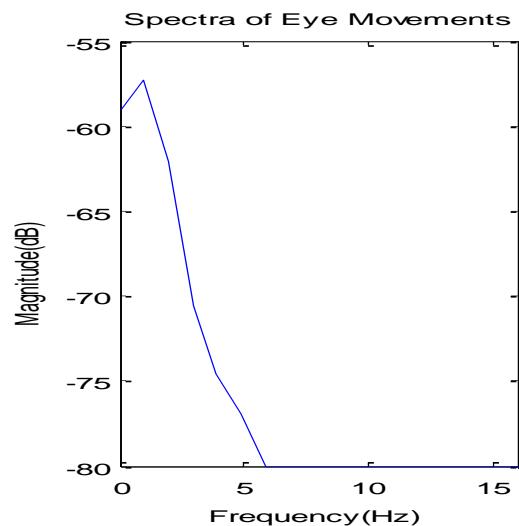
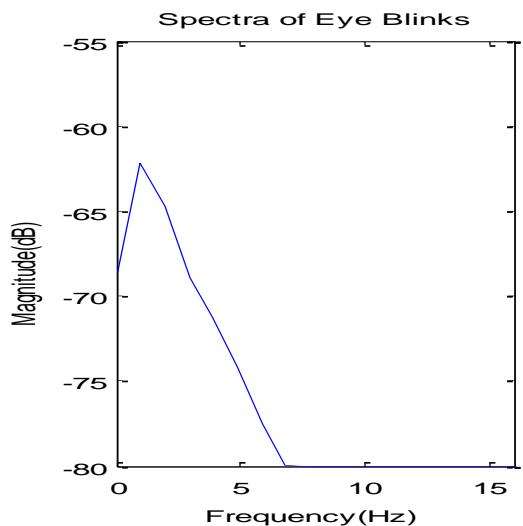
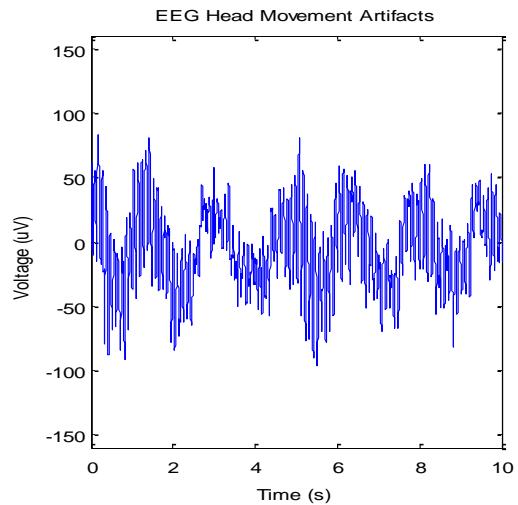
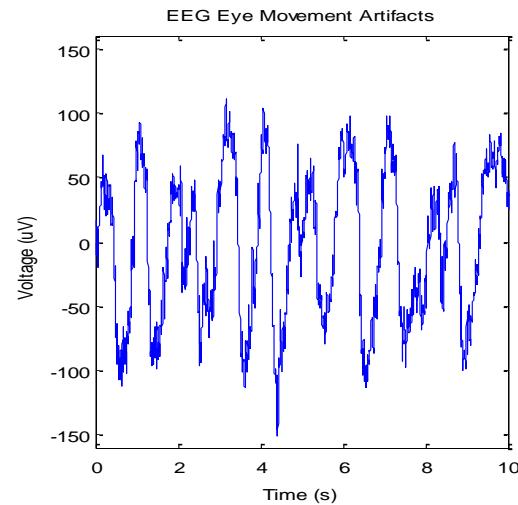
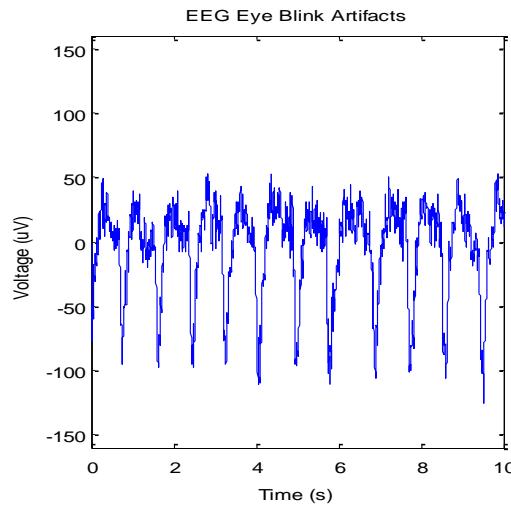
# Evoked Potentials



# Artifacts



# Artifacts



# Montages

- Reference (ear)
- Bipolar
- Common Average
- Laplacian
  - Small
  - Large

