**Agenda:**

1. Confirm architecture of the product (one WCU per electrode or one WCU per cluster of electrodes, etc.)

2. Report on task distribution

3. Report on our analysis of the problem (module breakdown, etc.)

4. Report on progress

**Meetings:**

total aggregate market

We also can't assume every clinic and hospital has EEG especially wireless one as that requires a neurosurgeon

Check with Nitin about market

- product replacement cycle

Talk to nitin more about market analysis

Confirm specs and findings

Ask to see if we can talk to more neurosurgeons like him

Ask Nitin about Grad student who works with him

Also have a meeting with Caleb?

Not only for epilisey

Sleep analysis

Other brain functionality

Look at commercial neurochips

- Try to find the wireless competitor, the existing one on the market?

Read intan technical papers

- Also look at intan schematics

- maybe ask intan for sponsorship and a dev board

So far we found 4 potential challenges to apply to

- TI Innovation challenge - 2016 registration not yet announced

- Intel Greatest maker challenge - <https://www-ssl.intel.com/content/www/us/en/wearables/americas-greatest-makers.htmlc>

- EMedic Global Registration - Application opens Oct 1, 2015

- Lemelson MIT student prize - cure it (Not yet out)

Form factor is usually the first thing to compromise

Might need an external antenna

What is the best way to design

Have all 16 electrodes transmit

Or transmit to a single base station (i.e 1 bigger one, 15 smaller ones) - Can NFC work here?

Compare and contrast different wireless standards

Wifi

BLE

Zigbee

NFC

Power consumptions

data transfer

sensitivity of noise - DC noise, tiny cap to block

Will need capacitors and transistors

Limit on DC to transmit?

UWash Seattle Papers

- Hamed will send it

Send jennifer hunter an email requesting a room for the entire semester