List of ideas for the project

Brief descriptions for brainstorming

#### Vicentiu-Cristian Badea (Vily)

1. *Driver pulse monitor - chest strap, retrieve warning in case of irregular pulse*
2. *Plant moisture monitor - turn on green LED when wet, yellow LED when neutral, red LED when dry*

#### Karl Noory

1. *Braille to Text machine, each braille dot can be a button. When character is complete it is sent to the Android app text box.*
2. *Walkie talkies. Send voice over LTE/4G.*
3. *Coffea/Tea temperature measuring tool, that alerts user when beverage is safe to drink/handle.*
4. *Pee color detector, dehydration alert.*
5. *Real-time captions, point phone to speaker and captions will appear automatically.*

#### Daniel Savin

1. *Plant related stuff: track moisture, temperature and light exposure.*
2. *Human temperature sensor - get your own data over the day.*
3. *Sugar level sensor for diabetics.*
4. *Stress measuring tool for migraine patients advising to get meds an hour before or so.*
5. *Allergen particle analysis sensor.*

#### JunYoung David Kim

1. *Sleeping monitor that tracks heart-rate to know when entering non-REM sleep.*
2. *Home security with camera and motion sensor to keep track of individuals when asleep or away from home.*
3. *Sign language to Text machine.*

#### Thomas Tran

1. Detect if person is wearing a mask, if not trigger a mask giver
2. Smart Table. Table that raises and lowers hourly based for good posture. Users can walk around during the switch in levels. Instructions on spots in the room to look around for good eyesight, and instructions for good posture. Android: being to control the height, track your posture, every person using would have their own

Preferences

1. *Simple sensor on a board system with Bluetooth connectivity to Android phone.*
2. *Ability to track data over time with graph view; while one value calls for action, a collection of values gives a trend and idea on how to optimize.*
3. *Solution to a real problem that hasn’t been done before*
4. *Usage of hardware external to the android phone*