Wunderlist

- -App, fancy grocery list to share with other people
- -phone app that updates in real time
- -easy way to work through simple tasks from a multi view

Hardware

- -Lidar sensors & costs
  - -Garmin Lite V3
- -Antenna
  - -dipole for tx
  - -loop for rx
- -Controllers
  - -Beagle Bone Blue
  - -RPi V3
  - -BBB
  - -Snapdragon
  - -Nvidia Tegra K1
  - -other options
- -Mapping topo lines
  - -micro projector
  - -alternative projecting methods
- -1 foot cube made out of clear plexi glass

Project Code Names:

- -Topographical arial mapping and finding (T.A.M.F.)
- -Topographical arial mapping utility (T.A.M.U.)
- -Real Time Topographical Mapping and finding (R.T.T.M.F.)
- -continue to spitball names

Goals by person

1. Ryan
    1.1. Research the impacts of sand
    1.2. Types of Antennas used for Tx and Rx
    1.3. Skin Depths
    1.4. Sand that can be penetrated easily
    1.5. Salt?
    1.6. Costs
    1.7. 3 PowerPoint slides for presentation
    1.8. Brochure section
    1.9. EM & Lidar interference
    1.10. Signal processing
    1.11. Budget.
    1.12. Crowd source funding
2. Randy
    2.1. Lidar sensor research
    2.2. Point cloud research
    2.3. Costs
    2.4. Alternative sensors
    2.5. Projectors
    2.6. How to project back down onto the sand
    2.7. Kinect Sensor investigation
    2.8. 3 PowerPoint slides for presentation
    2.9. Brochure section
    2.10. Budget
    2.11. Crowd source funding
3. Nathan
    3.1. Controllers
    3.2. MCU/MPU options
    3.3. FPGA?
    3.4. Interfacing
    3.5. Costs
    3.6. HW/SW
    3.7. Debian?
    3.8. Latency
    3.9. 3 PowerPoint slides for presentation
    3.10. Brochure section
    3.11. Lidar development via laser
    3.12. MATLAB point cloud implementation
    3.13. Budget
    3.14. Crowd source funding

Deliverables for 2017-OCT-2:

1. Each person to have completed their slides and brochure for the presentation

Deliverables for 2017-OCT-7:

1. Complete the research for the listed topics per person to be able to discuss as a group
2. Gantt Installed
3. Wunderlist installed