

Meeting 1 minutes – Rob Mustak

New meeting time 1st plan of action—find time for Alex and get back to Schafer. 30 minute meetings, exception is design review, 1 hr or more. Comes in at 7am 8am. Good time perhaps prior to W lab, at 1:00.

Review due dates – first milestone want to see major subsystems working separately, right after Spring break. How are we going to home the data from all sensors.

Electric imp to send video data right to internet from camera 6 fps black and white. Solves connection problem. ISSUES? Cloud computing, internet access not a big deal, router in room can be used for testing. Not unreasonable to assume WIFI in garages. Meet with Open Sesame to get info. Getting sufficient video rate tough. Processing power needed to write analysis code, want internet capable machine IN GARAGE – expensive if use matlab because need license. Not hard to implement algorithms in another language, not have to use MATLAB. Could be tough using code because multiple video feeds.

Plan of action use 2 groups again (HW and Software). Can the Imp cloud do video processing? Whole subsystem is camera/imp connection. IDENTIFY CAMERA QUICKLY. USB is tough, SPI or Serial camera easier, use these. Schafer has a coupleimps, dev boards.

Testing how WiFi would work in a parking garage. Phones usable as WiFi hotspots, see range.

Output subsystem: LCD or webpage for 1st review. Less concerned about big display when that would just drive up cost. Just display it easily in Feb. Lock down utilizing the data we have in a readable way. Cell phone app say “Level 5: 8 spots, Level 4: 7 spots, etc.”

Goals for next week: Plan for getting to subsystems – think about what we have to do first—using IMP, seeing if cloud works. Feb design review all subsystems need to work but not necessarily in their environment. Work out meeting time, remind Schafer of IMP, get cart, get room.