Meeting with Dr. Daniels Feb. 4 2020

Documenting requirements/use cases is not a waste of time!

What are the options for an ad-hoc network? What protocols, etc.

MAC Protocol - just ad-hoc wifi, other components in this space?

Run IP over this, stream TCP/UDP, etc.

320x240 resolution for video could be it... compression...

What kind of compression is possible in real time?

Create a collaborative document (google docs) to catalog all potentially relevant network stuff...

Daji Qiao may have relevant expertise in this area (sensor networking)

Make sure packages used are recently updated (active community), have relevant hardware support (features in API don't do what you want). For instance, Bluetooth LE (low energy) is bad...

Design the system in 2 directions: top down so you know what components are / how they interact (functional diagrams / use cases); bottom up because there are certain things you need to know before you make risky choices - need to find the right thing.

B.A.T.M.A.N - find alternatives and list pros/cons, decide which is best Probably want this to be datagram oriented (UDP) - stream oriented (TCP) will try to force replays when we really don't care because the video's already gone. Want to track when we lose messages - show this in UI

lor 2 displays! Enst. Station is a laptop w/ external displays... risky! Audience Display only some info 201 Instructor ethernet? station Buse node" NUMOSTER 4 could be just a regular nock Lact Sensor Node Wode FWD 0 ther Sensons Node FWD Sens or IK Node Node

maybe too slow? Inst -> USB -> NW Master La Static IP, etc. still need to know compatibility to This is de ten -> This diagramisa functional diagram, for example ... Positioning on some hocles? WiFi triangulation for location yourd inforto instructor antemet for location? I does this interfere with the other networking we're doing (network interfaces unavailable, etc.)

+nstructor station Will have dehugoutput on builtin lappopdisplan -Hadicace display is On external monitor Lose 2 prouser windows, could be 2 URLS or Just 2 tabs with a different apaif" of the opp (LED) Visual cuesion vodes D buttons & turn one on, which one is 1+?

Registration S VI tem

two sets should be

usable at once (together aport)

I should be easy from Networking perspecting

LED indicators to show connections: Blines of RP; code > LED, pin,
ground; into for ron-technic od
wers Instructor-HTTP ... Go ahead w/ use cdsesy administrative staff -> hardwire/ configuration for usecases, respont Network mas terto reload them.