EEar

EE 41440

January 17, 2017 Minutes

Meeting Leader: Garrett

HLD Feedback

* Try to make it more centralized, avoid mounting so many microphones
	+ One unit that identifies different alarms
	+ FFT (overkill?)
	+ Prerecord samples to test sounds
	+ Condenser microphone that runs on battery
	+ Signature of sound
* Battery
	+ Can’t just measure voltage
	+ Fuel gauge chips that measure current
		- Maxim
		- TI
	+ Find one chip that measures current and manages charging
	+ Charging is pretty simple, past projects have designed these
	+ Parts for charging hardware made for specific battery chemistry
	+ We should be able to run on a single cell regulator
* 1 in x .5 in display we might like

For the Semester

* Split into more than 4 parts for 4 people to work on individually
	+ Have leaders for parts
	+ Have maybe 2 people in the subsystem groups
	+ Not all 4 in the same group, too many
* Three upcoming checkpoints:
	+ Design subsystem review
		- In approximately 6 weeks
		- i.e. Raspberry Pi goes off; Wi-Fi device senses sound; Bluetooth to device
		- Don’t ignore that they will be talking to each other
	+ Subsystem integration test
		- Stresses interface
	+ Application test
		- Adding features
		- Making pretty/sexy

Next Week

* Semester plan
	+ These are the subsystems
	+ How will we do this so we can get to subsystems test
* See Natalie for cart and breakout room
	+ Let Schafer know when we know

Next meeting: Jan. 26, 2017