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Initial Design Ideas Self Defense jewelny - taser ring -> shock attacker > ring will be taser, bracelet is battery pack - flash ring -> bright light to be able to blind attacker -> light in ring, battery pack in bracelet

Meeting Minutes 1

9/17

Team Nane: Sweet Dreams Beginning Team Skills Matrix Decide to be assigned an advisor General discussion of product and expectations

Product Design Brainsborning

Current iden

Taser: Source of the shock will be where a genstone is on a normal ring Battery pack! in bracelet hearting tor? How will the laser circuit work? Trick gun circuit?. 3v ⊤ resistor

capacitor switch (button) transformer

Th-tip

Initial Sketches



I don't think that a good idea to add the clock for possible issues with Filbitt Apple Watch

VOIG

9124 Meeting Minutes 2 QFD is due next week Laura is working on the Gantt Chart Using a Team's channel for communication along with the groupme General discussion of engineering and Customer requirements Potential Competions: - Knockout Brand -> defenderring com > invisawear.com

Meeting Minutes 3 First Meeting With Dr. Hasler Going through introduction and information Project Discussion -> Goals

- -> Application
- > Teshna

Simple circuits

- I Flush out specific subsystems
- > Begin thinking of test protocols

notitis

<u>Cost</u> <u>Cost</u> <u>S</u> 46 <u>Budget</u> <u>Cost</u> <u>Rer</u> <u>Unit</u> <u>L</u> <u>Bidget</u> <u>Cost</u> <u>Rer</u> <u>Unit</u> <u>L</u> <u>Bitsonly</u>

The bracelet will be modeled after a Fitbit which is about \$20 worth of parts however we will not be doing a watch face which will save some money on parts

Meeting Minutes 4

0/15

Discussion What is the project? > Finish research and brainsforming this semester Flush out full ides How is everything agoing to be tested?

Meeting Minutes 5

11/5

Second Meeting with Dr. Hasler For Ston Gun Circuit'.

- -> Instead of focusing on discharge current focus on charge and voltage
- -> What should the voltage be?
- > Add a cleaner Circuit
- -> Research what capacitor rating we need
- -> Desired current range 1-3mA

Teshing.

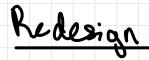
- -> Start with lab bench tosting
- -> Then find volunteers to test on

Things to consider!

· Resistance of the human body:

- · Sweaky vs Dry
- · Fat vs skinny
- · Skin vs clothing

Matio



0 1/71

Meeting Notes G Present: EH, KW, KR, RC, HE 1/12 LK, CS During Meeting: Determined Leadership Roles Tasks. Compenent List 1/19 Presentation frep 1/30 Changed design to aglave set up Taser circuit 1/19 Presentation Set up 1/19 1/19 Meeting Notes 7 Fresent: KR, RC, HE, LK, CS Tasks: V Teshing Circuit 1/21 Reviewed After the fact! Covered in the meching · Powerpoint has been started · Pressure sensors have been selected → one large for the backofthe hand -> a few for the fingers 4 Marip

Testing 1/21
Lara's Resistance F>F= 2.2 MJZ
Same Hand = 1.3
KW Resistance F= ZMA
same hand = 2.6 MS
F-> Wrist = SOMD
max dist?
Testina 1/24

	Cheek	Arm	Temple	
KR	GMSZ	40 M.SC	4.3MS2	
KW	5.5M2	10 M 52	5.GMSL	had place event
LK	ZMSZ	6.5M.J2	5.5 MJZ	lead placement
RC	SMJ	30 M J2	J. M J.	
EH	5.7MJ2	SCM OI	6.2MJ2	4.3
CS	9 M JZ	42MJ2	6.6MJ	
HE	0.9 M J2	3MJ	0.5MJ	
Volunteer	5.2MJZ	19 MJZ		

Meeting Ninukes 8 Present: KR, KW, EH, RC, HE, LK, CS

1124

Task Work on slides for the presentation 1/30

Prep for question quarter bok 1/30

Puring meeting Continued to work on the proposal

· Decided to have a switch to turn on and off the shin gun Lo will also trigger the textmessage

Question Quarterback Prep

Elizabeth: Website Story behind Why Name Katie R. Circuit Diagram Budget Lara Microcontroller hahda. User and Design Requirements Christine: Code + Psuedo code Katie W. The Difference Testing

Meeting Minutes 9

 $\mathcal{P}\mathcal{N}$ Present: KR, KW, RC, LK, CS, EH, HE Presentation practice L> Noles : We are team sweet dreams and we have created a stun gun glone We are using the lowest resistance currently 212 Meeting Minutes 10 Present: KW, KR, HE, EH, CS, LK, RC Presentation Practice Task for the next week Research Flex ble PCB 219 218 4 OSH PARK has Flex PCBs to order 1> 28 day turnaround must be ordered soon Meeting Minutes II. 2/9 Pocsent: MLR, KW, RC, LK, CS, EH, HE Discussion - Jask Uplates - faits ordered Taski. this J Outline Final Report 2/16

1/30

Meeting Minutes 12

Present: KR, KW, RC, LK, CS, EH, HE Discussion: - Jagk Updates - Parts Ordered Tasks D Research Brain Limits 2/23 PCB Caverings 2123

Testing 2123 Dismontelling Ston gun



Safety pin allows for disconnect from battery to transformer

Katas

March 2nd Neeting Minutes 13

312

Present: EH, CS, HE, KR, KW, LK, RC Discussion: - Finalizing the Circuit - over 11 layout of tasks

Team To Po's. Due 3/9 finalized beast converter circuit Work on appin Visual Studio Finalize Micro conholler setup research

Kesearch Sending the GPS location vistert Order through hole parts

Individual To Dos. I research using surface mount on

bread beard

319 March 9 Meeting Minutes 14

Prosent EH, CS, HE, KR, KW, LK, RC Discussion: - recieved website - Finalizing the Circuit - testing components Team To Po's: lue 3/16 Individual To Dos.

D pickup studs I test microcontroller 1 test shots add multiple phone numbers for text I update slides Work on schematic Order parts

March 14 Meeting Minutes 15 3/16

Prosent: EH, CS, HE, KR, KW, LK, RC ht Discussion: - Finalizing the Circuit - testing components Individual To Dos. Team To Po's. lue 3/30 Workon a pp + Software Degin expo powerpoint+ poster 8 Duild + test breakent board

March 30 Meeting Minutes 16 3130

Present: EH, CS, HE, KR, KW, LK, RC Discussion: - Finalizing the Circuit - testing components

 Team To Po's:
 Pue
 4/6
 Individual To Da's:

 □
 Work on app
 □
 Conhinue fewerpoint

 □
 test software
 □
 Conhinue fester

 □
 test breakout boordg
 □
 begin final report

April 6 Meeting Minutes 17 416

Present: EH, CS, HE, KL, KW, LK, RC Discussion: - Finalizing the Circuit - testing compenents <u>Team To Po's</u>. Rue 4/13 <u>Individual To Do's</u>. Work on app <u>I</u> Continue fewerpoint Lest software <u>I</u> continue fewerpoint test software <u>I</u> continue fester test breakout boordg <u>I</u> continue final report

April 13 Meeting Minutes 18 4/13

Prosent: EH, CS, HE, KR, KW, LK, RC Discussion: - Finalizing the Circuit - teshing components <u>Team To Po's</u>: Rue 4/20 <u>Individual To Da's</u>: Work on app <u>Individual To Da's</u>: Work on app <u>Individual To Da's</u>: Hest software <u>Individual To Da's</u>: Lest software <u>Individual To Da's</u>: Lest software <u>Individual To Da's</u>: Dest software <u>Inditione</u> <u>Individual To Da's</u>: Dest s

htip

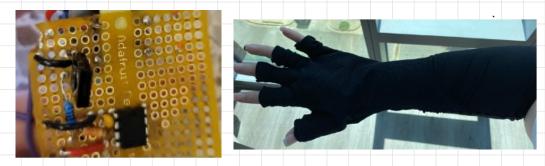
April 20 Meeting Minutes 19 4120

Prosent: EH, CS, HE, KR, KW, LK, RC Discussion: - Building protokype

Team To Do's.	Individual To Des
film video prosontation 4/22	I Finish powerpoint
I prop for expo 4126	I Finish pester
I finish probotype 4/21	I continue final report
	I finish sewing probotype

Expo

Spoke with attendees and judges to inform them about Nemi the self defense glove





Matino