E-Trike

Progress Presentation 1

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Technical Advisor: Timothy Brown

EXPECTED TIMELINE

Month	Week No	Tasks	Member in Charge	Monthly Deliverables	
Jan	1	N/A		Getting our parts annd software outline	
	2	N/A			
	3	Getting the funding for hardware	Mercy		DONE
	4	Getting the hardware ordered and having a plan for the software	Mercy and Tiauna		ONGOING
Feb	1	Designing the PCB Board - learning about it	Breyonna **Felicia**	Designing the PCB Board and having drafts of the whole system	ONGOING
	2	Designing the PCB Board - having a draft prototype	Breyonna **Felicia**		ONGOING
	3	Coding the App - Building the draft interface	Tiauna		DONE
	4	Putting together the parts - verifying each part works	Kasandra		POSTPONED

Progress

Highlights

- Communication,
- Regularly meeting,
- App development on Udacity,
- Strengths and Weaknesses
- XCode,
- Divide and conquer,
- Being resourceful/Taking initiative

Lowlights

- Ordering the parts
- Scope
- Meeting proper deadlines
- Redefine the Scope
- Budget

Hardware Progress

Before:

- Wheels Deflated
- Chain too small for Electric Tricycle
- Capacitor weighing Tricycle down
- Batteries were dead

After:

- Wheels Inflated
- Took Capacitor off for lighter weight
- Replaced battery with 12 Volt batteries
- Experimenting with Bike Chain

Before

After

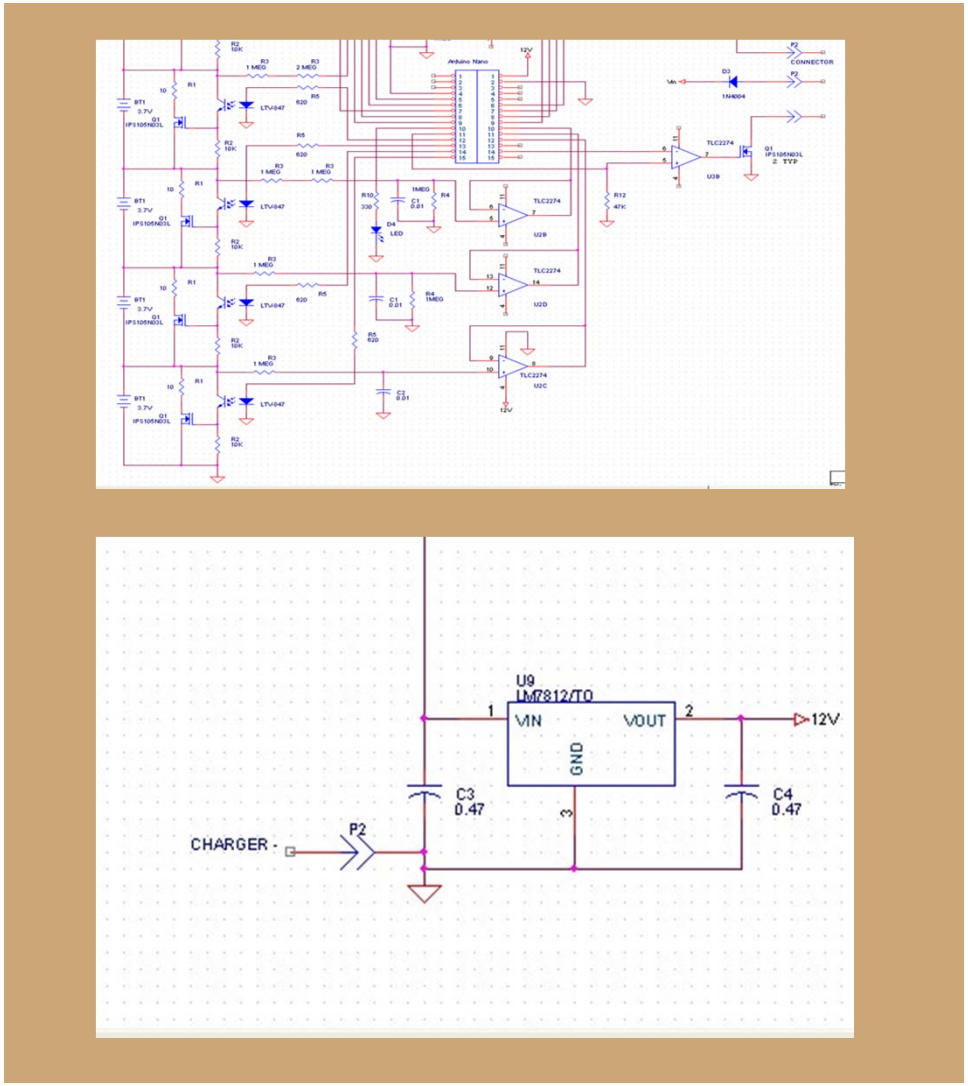
Hardware

Expectations

- Block diagram of major parts of the PCB by April
- We expect to perform the BMS manually to get the bike to run

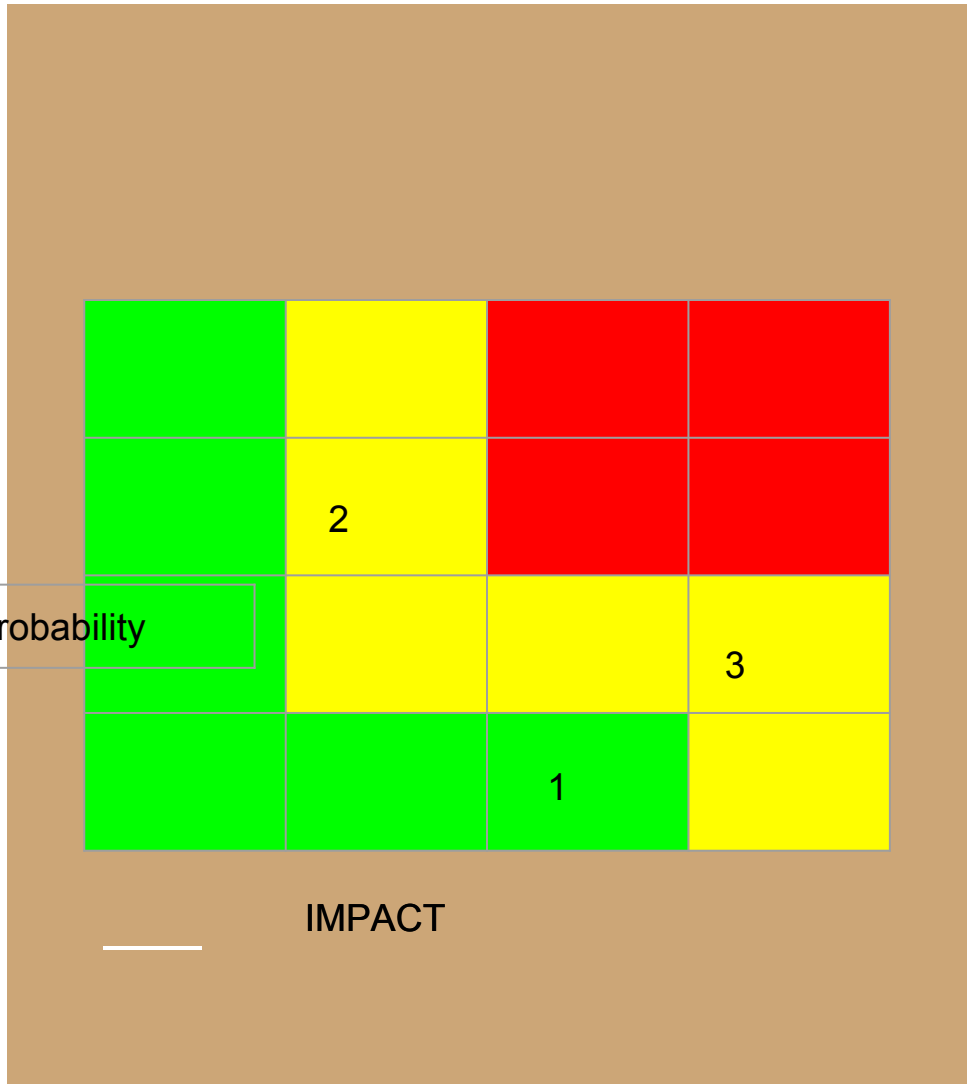
Purpose

- BMS regulates the output voltage that will be fed into the arduino.
- The LM7812 chip voltage regulator will aid in producing a 12 volt output

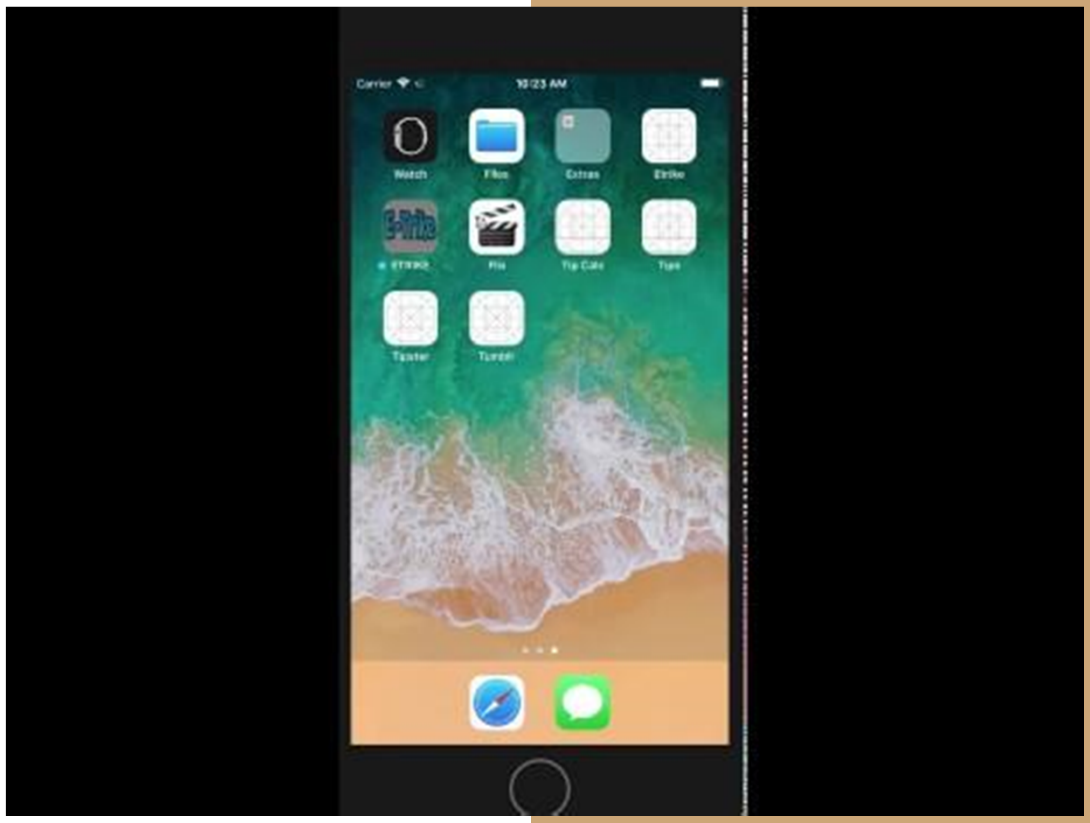


RISK MANAGEMENT

Rank	Risk	Approach
1	PCB Completion	W
2	Full project Scope not being completed	R
3	Parts	R



Software Progress



Improvements

- Order parts
- Reach out to advisors
- Development of the App
- Using resources

WHAT'S NEXT

- **Developing a schematic**
- **Coding for App**
- **Attaching the bike parts**
- **Ordering the parts**

QUESTIONS

THANK YOU!