**Gore Bio-Electric Team Meeting – September 6, 2017**

**Meeting started at 1:00 pm**

**Members Present**

Tim O’Rourke

Bray Moll

Andrew Mullen

Justin Havely

Zaoyi Chi

Ariel Autrand

**Members Not Present**

Diego Garcia – Not planned excused absence (stuck in traffic until 5am coming back from Tucson the previous night)

Qingkun Liu – Just added to the team.

**Relevant Ideas**

The idea was brought up to use the neuro network as a power source

**Discuss Relevant Research**

* Inductive Charging
	+ Pros
		- Heavily researched for Non Biomedical Applications
		- Mid band frequencies have been shown to be safe
		- No major problems
	+ Cons
		- Relies on the user
		- Alignment of antennas can be complicated
* Thermoelectric
	+ Pros
		- Solid State
		- Based on a well-studied phenomena
	+ Cons
		- Low efficiencies
		- Low power capabilities

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**September 25 Gore Meeting Planning**

* Questions/Ideas to ask
	+ What is the final product they hope to have? Are they hoping for an educational tool, a proof of concept, or a functioning device?
	+ Who is the typical user?
		- Does this have to be applicable to a wide user base or would a niche market be applicable.
	+ Is there any resources that they have, such as material property databases, common implantable materials, which we would have access to?
	+ How would they like us to test our final device? (Would using biological materials be out of the scope or should they be considered?)
	+ Do they have any general advice?
* Dress Code
	+ Dress in a collared shirt and decent jeans
* Meeting Location
	+ NeMarcos Pizza

**Future Business**

**Action items before the September 25 Meeting**

* September 25 meeting agenda: **Tim O’Rourke**
* September 18 meeting minutes: **Bray Moll**
* Research Basic biology focusing on the cardiovascular system as well as what a pace maker does: **All team members before the Gore Meeting**
* Research typical pacemaker power requirements: **Electrical Engineers**

**General Action Items**

* Look into what implantable medical devices are being researched today (By Wednesday September 27,2017)
* Break each team member into a focus area

**Meeting Adjourned at 2:00 pm.**

Meeting minutes Prepared by Bray Moll