Part 1

Hi everyone, my name is Daniel and this is Tynan and we are here to represent Esperto Labs and the Esperto Smartwatch project.

What is the Esperto Smartwatch?

Well, the Esperto smartwatch is a wearable platform which developers and students will be able to use to accelerate their wearable project. Currently, we have multiple embedded sensors including an accelerometer, PPG sensor, gyroscope, and temperature sensor = and their supporting algorithms and libraries available. But have left enough space for developers to implement their own hardware and software within the project and make it unique to their application. They can use it as a basis to their own project and all of its onboard open source sensors and algorithms. This will allow users to begin their wearable project more efficiently and obtain data quicker without the hassle of starting a complicated embedded project from scratch. Finally, one of our goals is also to create a project which will make it easier to introduce young students to the world of embedded design.

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So the idea started about **3 months** ago, me and Dan were talking and both had an interest in **firmware** and **hardware** design and with seeing the growing interest in wearable technologies today, Esperto Labs and the esperto watch was created.

We started off as a **team of 2**, and as we talked to friends about our team we grew to about **6** in a month and now are **currently at 12** members.

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*REFERENCE SLIDE\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

Among our team we have students from **ECE, Tron, Mech and Biomed**. Unfortunately, we had to cap our team at 12 members as we are unable to support anymore due to limited funding and prototypes as we want to ensure that every member is able to work **hands on** with our product to form a better understanding of the functionality of the device.

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Part 3

So, theres a couple ways we ensure students gain those technical skills and hands on experience.

Well, first of all, we have weekly meetings where we not only talk about logistics of the project but also plan what we want to implement in the future. Here is where we give fellow team members the chance to speak up about any features they think would be valuable in implementing. If we, as a team, find the feature valuable to work on and we have the resources to do it, that team member will take charge of that feature. Now, of course we, as team leads, will be there to support and give them anything they need, but the actual student drives the development process.POINT TO SLIDES

In addition to providing a strong experience, we believe fellow team members are also part of a great sociable atmosphere where team members can talk between themselves about their social lives, possible homework questions and we even held a resume and interview question workshop because we believe that besides hard work, we also want all the team members to feel like they are part of something special. POINT TO STATISTICS

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The funding would go towards producing **3 more prototypes** which involves purchasing more **microcontrollers, displays, sensors and manufacturing PCB**. This would intern allow us to add members to our team our team while still **maintaining that hands on working environment** that we value so much.

By the end of the term we want to have the **first version** of our watch completed so that in the following term we are able to implement new features such as **GPS, wireless charging and any other ideas that our team may be able to come up with.**