**WORKSHEET – 2**

**IDEA EVALUATION WORKSHEET- Based on 5q by Prof.EdRubaesch**

Q1. WHAT’S THE PROBLEM ?

The problem faced by the deaf and dumb people is a real time problem that requires an immediate solution for them to lead a better and happy life.

Deaf and dumb people face a problem in communication in their daily life.There are nearly 26million deaf and dumb people in India who face a difficulty in communication and also find it difficult to earn a livelihood.

So to lead a better and independent life they need an immediate solution

1. CURRENT SOLUTIONS

No perfect product exists in our country yet

Q2. WHO HAS THE PROBLEM-customer identification

* PROFILE

Deaf and dumb people who cannot communicate well with the rest of the society

* SEGMENT

Socially backward people with difficulty in communicating with others

* POSITION-CRITICALITY OF NEED

This product has a great effect on the livelihood of differently abler people and has a large significance in making their lives easygoing

Q3. WHAT’S YOUR SOLUTION

* WHATS YOUR UNIQUE PROPOSITION

Our unique proposition is to construct a glove with inbuilt mpu sensors so as to record their hand gestures and then apply a machine learning algorithm to the acquired data and predict the gesture our customer is trying to convey

* DO YOU OWN IT- IPR

NO,we don’t have an IT-IPR at the moment

Q4. WHO IS COMPETITION

* HOW ARE YOU DIFFERENT

We are different because our product uses sensors that are different and the efficiency of our ML algorithm is ore than the hypothetical products in the market.there are no products in the market to compare ours.

* ARE YOU THE UBER OR YOU UBERED

We are the über since there are no such products

Q5. HOW IS IT MADE POSSIBLE-

* RESOURCES/ TECHNOLOGY

Machine Learning and raspberry pi are the resources we need

Sensors like MPU 6050,i2c converters

Machine Learning and python programming language is the technology required

* SOCIAL/ECOLOGICAL FEASABILTY

Our product is socially and ecologically feasible as it’s adverse effects on the ecology are minimum or none.

It is socially feasible as it reforms and develops life of people who are differently abled

* Man,money ,machine,materials.

Man: the product doesn’t require much manpower. The software part of the product is same in all the products and manpower is only required for assembling the product

Money: prototype of the band costs us 4035 inr per piece ,but on further development using embedded systems the final product will be available for a meagre price of 1500 inr per piece

Machine: the machines used in the product are raspberry pi and sensors

IDEA EVALUATION- SUMUP

CUSTOMERS: Deaf and dumb people,care takers of the inabled ,NGO’s who want to look after the people

SIZE: the market for our product is 26 million Indians who are differently abled

COMPETITION

DIFFERENTIATOR: efficiency of the product and the method of solving the problem is our differentiator

ECONOMIC FEASABILITY : the product is available for a relatively cheaper price of 1500.

COMPETENCIES

KNOWLEDGE NEEDED: Python programming language, machine learning algorithms, sensors and their applications

SKILLS NEEDED :programming skills, sensors utilisation.