**Pi Report**

Our aim is to improve the lives of visually impaired people all over the world by giving them cheap and easy access to modern technology. We aim to help people with a cane that can detect objects and warn the user so that they can avoid the object in case it is fragile or even a person. We will make this cane available to the whole world

We hope that our project will provide easy to understand, cheap, and accessible access to visually impaired people across the world. Every day countless people with blindness. Our project will not only encourage blind people to spend more time outside while ensuring the safety of the user and others around them. Some simple tasks that seem easy to us such as going up and down stairs, provide an extreme challenge for those who are facing visual issues. But hopefully with our product these challenges will be just as trivial for them as it is for them.

We are going to create a device that can give aid to people who suffer from blindness around the world. We are going to achieve this by utilising technology to ensure their protection while near obstacles. We will achieve this by modifying a cane meant for the visually impaired and attaching a raspberry pi with sensor that will warn the user. We will programme the raspberry pi to vibrate if an obstacle is within a certain distance.