

SMART GLASS ABSTRACT:

Smart glasses are wearable devices that display real-time information directly in front of users' field of vision. Head-worn displays (HWD) have recently gained significant attention, in particular thanks to the release of a temporary version of Google Glass. But, Google has temporarily pulled the plug on the production of glasses in early 2015. This project aims at developing the Smart Glass product to the next stage. Smart Glass is a cheap modular device. It can be upgraded through the attachment or replacement of discrete components/modules which will have specific functions. The main purpose of Smart Glass is to provide users with information and services relevant for their contexts and useful for the users to perform their tasks; in other words, such devices augment users' visual senses. The modules for this device are designed to best suit to the users' workplace. There are various use-cases for Smart Glass. The Electrician Module helps an electrician to measure high voltage and current without getting distracted. The Task Module maintains a to-do list of pending works and displays appropriately. These modules are designed to be multipurpose. Our aim for the project is to create a cheap, easily accessible and open-source device that would help engineers, technicians and workers to use and expand upon Smart Glass.

Keywords: Augmented Reality, Modular Devices, Virtual Reality Headsets, Open-Source, Personal Assistant



Fig.1: Glass displaying notification

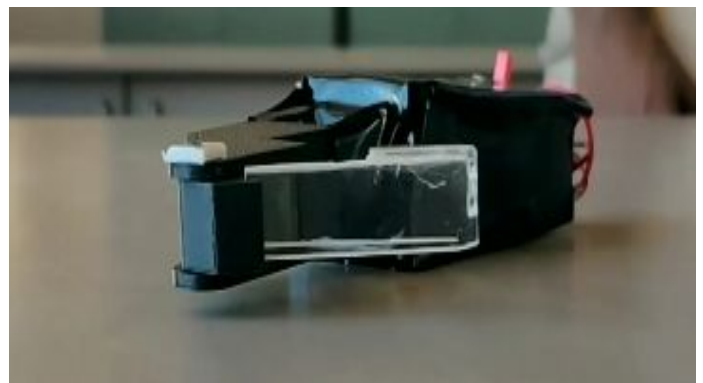


Fig.2: Prototype of smart glass