INSTITUTION'S INNOVATION COUNCIL
MOE'S INNOVATION CELL

Institute Name:
Institute of Aeronautical Engineering

Title of the Innovation/Prototype:
EYE CONTROLLED MOUSE

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FY of Development: 2022-23	**Developed as part of:** Academic Research Assignment/Industry Sponsored Project	**Innovation Type:** Product,Service	**TRL LEVEL:** 2

Theme:
Education,

Define the problem and its relevance to today's market / sociaty / industry need:
The primary problem that the eye mouse technology aims to address is the inability of individuals with physical disabilities to use traditional computer input devices such as a keyboard or mouse. This can be due to a range of conditions, including paralysis, motor impairment, or other disabilities that affect their ability to use their hands and arms. Without the ability to use a traditional input device, these individuals may face significant barriers to communication, education, employment, and social interaction.

Describe the Solution / Proposed / Developed:
An eye mouse is a computer input device that allows individuals with physical disabilities to control the movement of the computer mouse using their eyes. The primary purpose of an eye mouse is to provide a means of computer input for individuals who are unable to use traditional input devices such as a keyboard or mouse due to physical disabilities, such as paralysis or motor impairment. The eye mouse technology works by tracking the movements of the user's eyes using a camera or other specialized equipment.

Explain the uniqueness and distinctive features of the (product / process / service) solution:
An eye mouse enables individuals with physical disabilities to control the movement of the computer mouse using their eyes. Specifically, the eye mouse technology tracks the movements of the user's eyes using a camera or other specialized equipment, and the software translates those eye movements into cursor movements on the computer screen. This technology enables users to perform tasks such as typing, navigating websites, and using software applications, without the need for traditional input devices such as a keyboard or mouse.

How your proposed / developed (product / process / service) solution is different from similiar kind of product by the competitors if any:
The potential markets for eye mouse technology are primarily focused on individuals with physical disabilities who have difficulty using traditional input devices such as a keyboard or mouse. Some of the potential markets for eye mouse technology include: Healthcare: Eye mouse technology can be used in healthcare settings to help patients with physical disabilities communicate with healthcare providers, access electronic health records, and participate in telemedicine consultations. Education: Eye mouse technology can provide students with physical disabilities with access to educational materials and technology, enabling them to participate in online learning and educational activities.

Is there any IP or Patentable Component associated with the Solution?:
No

Has the Solution Received any Innovation Grant/Seefund Support?:
No

Are there any Recognitions (National/International) Obtained by the Solution?:
No

***Is the Solution Commercialized either through Technology Transfer or Enterprise Development/Startup?:**
No

Had the Solution Received any Pre-Incubation/Incubation Support?:
No

Video URL:
https://drive.google.com/file/d/1bs7ZH-5QGJprY_ZNWReJJdWFZXgVmgUa/view?usp=sharing