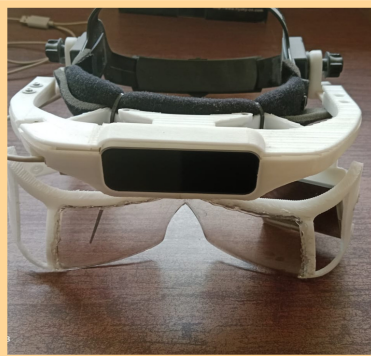
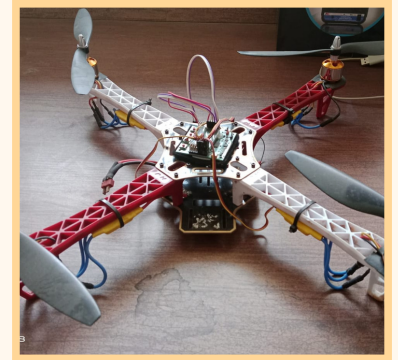


# PROJECT WORKS

## AeroSentinel Drone

Drones are complex devices with several key components. The flight controller, often an Arduino board, communicates with the drone's motors to generate lift and movement. Other hardware components include the battery, propellers, and frame. Drones can be customized for various uses and have become popular in industries such as photography, surveying, and delivery services.

Mahantesh R, 2020



## Mixed Reality Glasses

Mixed reality glasses use LCD displays and special lenses that reflect complete rays to allow users to experience a blend of virtual and real-world environments. They also use Leap Motion sensor technology to detect hand gestures, making it easier for users to interact with virtual content. Mixed reality glasses have broad applications in entertainment, gaming, education, healthcare, and industrial settings.

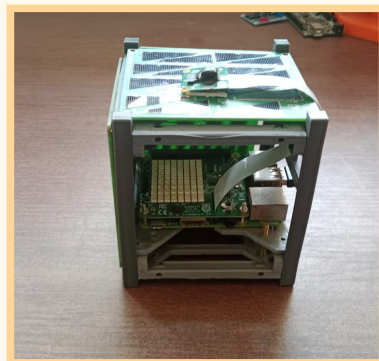
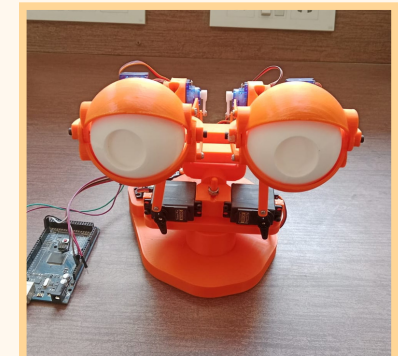
Mahantesh R, 2020



## Eye Movement Simulator

This innovative 3D printed model replicates the movements of a human eye, using an arduino mega chipset to coordinate its various parts. Its applications in research, education, and medical device development could be revolutionized further for more uses. With its precise replication of human eye movements, this technology has the potential to enhance our understanding of the eye's functions and bring about new breakthroughs in eye care.

Mahantesh R, 2020



## NebuSat Satellite

NebuSat is an innovative CubeSat designed to detect high-energy muon particles in the stratosphere. Equipped with a sophisticated detector, the CubeSat has the capability to accurately measure the distribution and flux of muons. This technology has various applications in the fields of atmospheric science, geophysics, and astrophysics. With its compact size and cost-effectiveness, NebuSat is a valuable tool for conducting research and collecting data in remote and challenging environments.

Mahantesh R, 2020



## Prosthetic Arm

This 3D printed arm concept is a prosthetic arm that simulates human elbow to wrist movement, utilizing servo motors for precision and control. Its customizable fit and cost-effective design make it a promising solution in the field of prosthetics, with the potential to transform the lives of individuals with upper limb amputations. With its exciting applications, this technology has the potential to revolutionize the way we approach limb replacement.

Mahantesh R, 2020

