 

**D-CONTROLLER**

**(Ground Control Station for Drone)**

**A PROJECT REPORT**

SUBMITTED IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE OF

**MASTERS OF COMPUTER APPLICATION**

**(2nd Semester)**

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| **SUBMITTED BY:**  **Amit Kumar Maurya** | **SUBMITTED TO:**  **Ms. Sugandhi Vij**  **(Assistant Professor)**  **Avviare Educational Hub, Noida (U.P)** |

**AVVIARE EDUCATIONAL HUB, NOIDA**

**(GLOCAL UNIVERSITY, SAHARANPUR, UTTAR PRADESH)**

 

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**ABSTRACT**

D-controller is a Ground Control Station (GCS) application designed to control a drone in real-time. The application provides several features, including real-time telemetry data, the ability to change drone mode and parameters, mission planning, real-time location display on a map, real-time waypoint drawing, and real-time video feed display. The objective of this project is to create a reliable and user-friendly GCS that can control a drone efficiently and effectively. To achieve this objective, the project utilizes DroneKit, PyMavlink, PyQt5, and other libraries. The results of the project demonstrate that D-controller is able to control a drone seamlessly, and the features provided by the application allow the user to monitor and control the drone effectively. The future scope of the project includes adding more features, improving the user interface, and integrating new technologies to enhance the performance and usability of the application.

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**Names**

**Date**

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