

**SISTEM KONTROL PADA PESAWAT TERBANG *UNMANNED AERIAL*
*VEHICLE (UAV) SUPER HEAVY DENGAN ARDUPILOT***

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ABSTRAK

Pesawat Unmanned Aerial Vehicle (UAV) merupakan kendaraan udara tanpa awak (pilot pengendali) di dalamnya. *Unmanned Aerial Vehicle* dikendalikan dari jarak jauh menggunakan remote control dari luar kendaraan. Metode penelitian bertujuan untuk menganalisa perkembangan pesawat *Unmanned Aerial Vehicle (UAV) Super Heavy* dengan menggunakan software *APM Planner* dan pengendalian jarak jauh menggunakan radio kontrol Futaba T8J. *Flight Plane Waypoint* memiliki 1 *home point* dan 4 *Waypont* dengan ketinggian 30 meter. *Radius waypoint* sebesar 20 meter dan *Throttle speed* sebesar 10m/s dengan jarak tempuh *Wireless Telemetry* sebesar 450-500 meter dengan sinyal 10% pada *Grand Control Station (GCS)*

Kata Kunci : *UAV, Flight Plane Waypoint, Ardupilot*

**CONTROL SYSTEM IN UNMANNED AERIAL VEHICLE (UAV) SUPER
HEAVY FLIGHT PLANTS WITH ARDUPILOT**

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ABSTRACT

Aircraft Unmanned Aerial Vehicle is an Unmanned air Vehicle (Controlling pilot) insiden. Because of without anyman, UAV must be controled from long distanced using remote control from outside Vehicle. The research method aims to analyze the development of Super Heavy Unmanned Aerial Vehicle using AOM Planner software and remote control using Futaba T8J radio control. Flight Plane Waypoint has 1 home point and 4 Waypoint with height of 30 meter, Radius Waypoint of 20 meter and Throttle speed of 10m/s with flight distanced of Wireless Telemetry of 450-500 meter with signal 10% at Grand Control Station (GCS).

Key word: : UAV, Flight Plane Waypoint, Ardupilot

