



DESIGNING AND PROTOTYPING A SENSORS HEAD FOR TEST AND CERTIFICATION OF UAV COMPONENTS

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Abstract- The project proposed in this paper deals with the design and the development of an embedded test system able to characterize both electrical and mechanical performances of UAVs (Unmanned Aerial Vehicles) propulsion subsystems (motor and propeller). The measurement data that can be collected are of great interest for professional applications, as well as for amateur makers. Starting from the measures acquired by the presented system, it will be possible to deliver certificates that guarantee the customer that the performances obtained by the drone are compliant to what declared by the seller.

Index terms: UAVs; propulsion; sensors; electric motors; test; certification.