



Design and Implementation of an Auto Pilot Stabilization System

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LAP Lambert Academic Publishing Mrz 2012, 2012. Taschenbuch. Condition: Neu. Neuware - An aircraft autopilot is a combination of mechanical, electrical & software systems that guide a vehicle without human intervention. Piloting aircraft is a very complex & tedious job resulting in wear & tear of pilots in long distance flights. Autopilot feature in aircraft's helps to reduce the work load on pilots making them more productive & active. This project aims at design & implementation of Auto Pilot Control System. Thrust required to take off flight along with added payload can be achieved by giving PWM pulse to the main motor. Main motor draws high amount of current which can be supplied using H-bridge circuit. Sensors such as Ultrasonic sonar & Accelerometer are placed onboard to limit the flight height & calibrate the tilt angle respectively. Microcontroller & Power supply to onboard electronic components are placed off the board to reduce the payload of the flight. Flight is being very sensitive to added additional payload, making it difficult to stabilize. Stability greatly matters to safe take off & landing of the flight & to avoid the vibration of the flight body. Stability of the flight can be greatly enhanced by...



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