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HARDWARE DEPARTMENT

WEEKLY REPORT

TEAM: FOOD DELIVERY ROBOT-HARDWARE
DATE: 15/09/2025-22/09/2025
PRESENTED BY: SIDDHARTHA

WORK UPDATES:

This week was dedicated to working on the base of the delivery robot. We focused on getting the mechanical and control systems to function smoothly. The base was successfully operated using the FLYSKY transmitter through RC-based channel controls, which helped us manually test movement and steering. Initially, we used a wired power supply since the 4200 mAh batteries caused inconsistent performance; addressing this battery issue will be our next goal. During the process, we identified several unbalanced and damaged components in the base, which were replaced or adjusted for better stability. We also experimented with different motor drivers to improve response and efficiency. Some drivers didn't perform as expected, so we shifted to an alternative driver configuration that provided stable and reliable control. By the end of the week, we managed to achieve consistent forward, backward, and steering motion of the vehicle, marking a strong step toward a fully controllable base system.

AT PRESENT:

Currently, our focus is on improving the power delivery and testing the base with battery operation to ensure stable wireless movement. We are also fine-tuning the motor driver setup and verifying the response of the RC control system to make sure all channels work smoothly under different load conditions.

FUTURE GOAL:

In the coming week, the plan is to stabilize the battery-powered system, enhance the speed and control accuracy, and begin initial trials for autonomous navigation integration. We aim to make the base completely self-sufficient and work on testing other components of the robot.