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Date: 30 NOVEMBER 2025

HARDWARE DEPARTMENT

WEEKLY REPORT

TEAM: DELIVERY ROBOT-HARDWARE

DATE: 24/11/2025-30/11/2025

PRESENTED BY: SIDDHARTHA

WORK UPDATES:

This week, I focused on learning fundamentals of working on Altium designer by covering the first 40 minutes of the tutorial “*How to Make a Custom ESP32 Board in Altium Designer | Full Tutorial .*” by Robert Feranec working on project initialization, ESP32 symbol creation, passive component symbols, and early-stage schematic connections. This helped me understand the symbol creation flow, pin mapping, and foundational schematic design steps in Altium. The work will strengthen my understanding in custom board designing for future applications that our company might work on.

AT PRESENT:

Currently, I am working to improve my understanding of component creation, schematic structuring, and symbol–footprint alignment for microcontrollers and passives. I am applying these concepts by recreating small sections of the ESP32 schematic to ensure accuracy and design clarity. This tutorial will help me navigate Altium tools and help me meet required design standards for professional PCB development.

00:00 What is this tutorial about
00:23 Starting a new project
03:29 Creating ESP32 symbol
18:23 100nF symbol
26:07 Connecting ESP32
32:08 1uF symbol
35:04 10k resistor
39:05 Creating and connecting buttons

FUTURE GOAL:

Next week, I plan to continue through the remaining sections of the tutorial, focusing on regulators, connectors, ESD protection, and interface components. Over time, I will transition from tutorial-based learning to designing small custom modules independently. The main goal is to gain enough proficiency to contribute to the **delivery robot PCB design** we are working on during the internship.