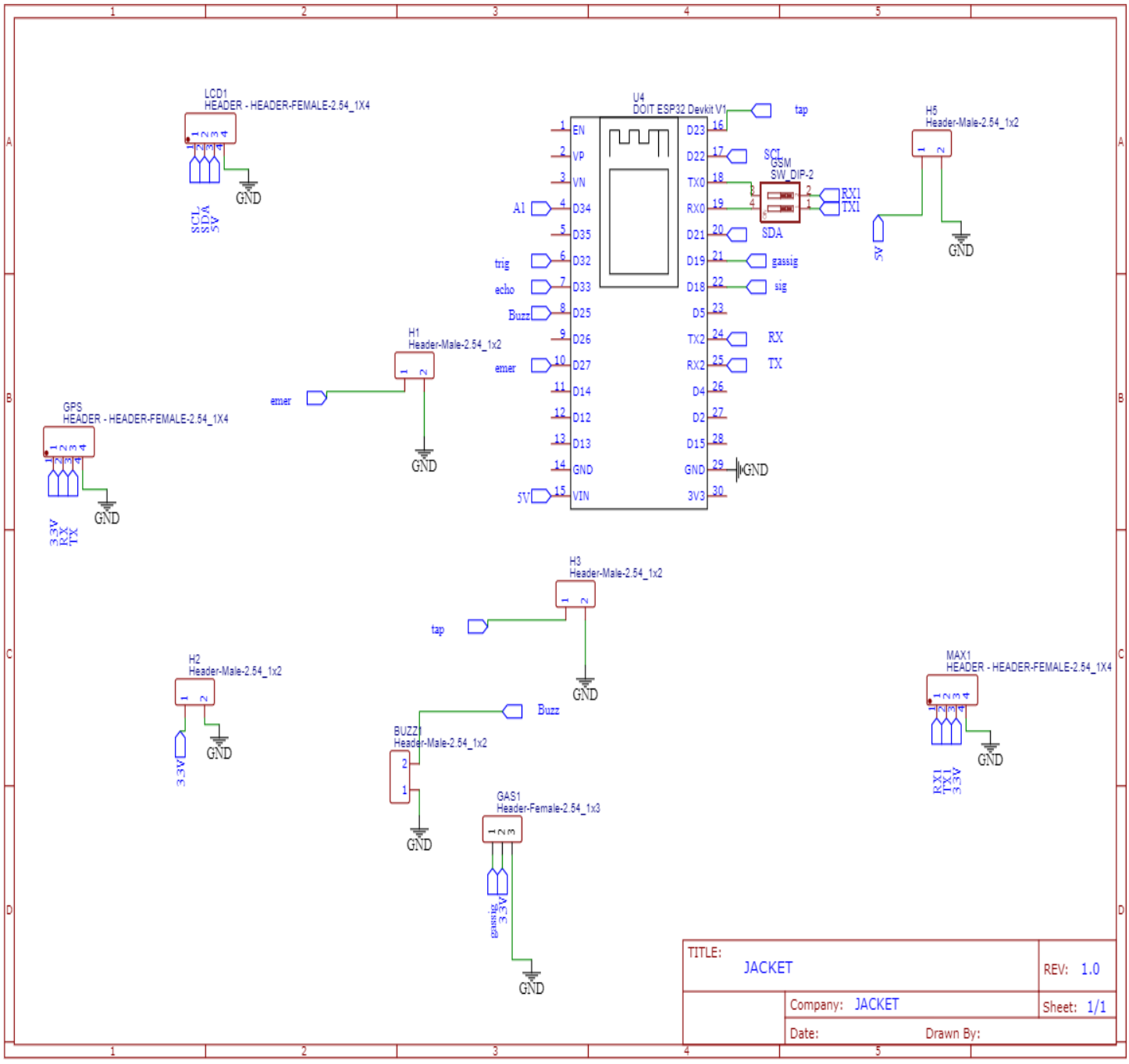
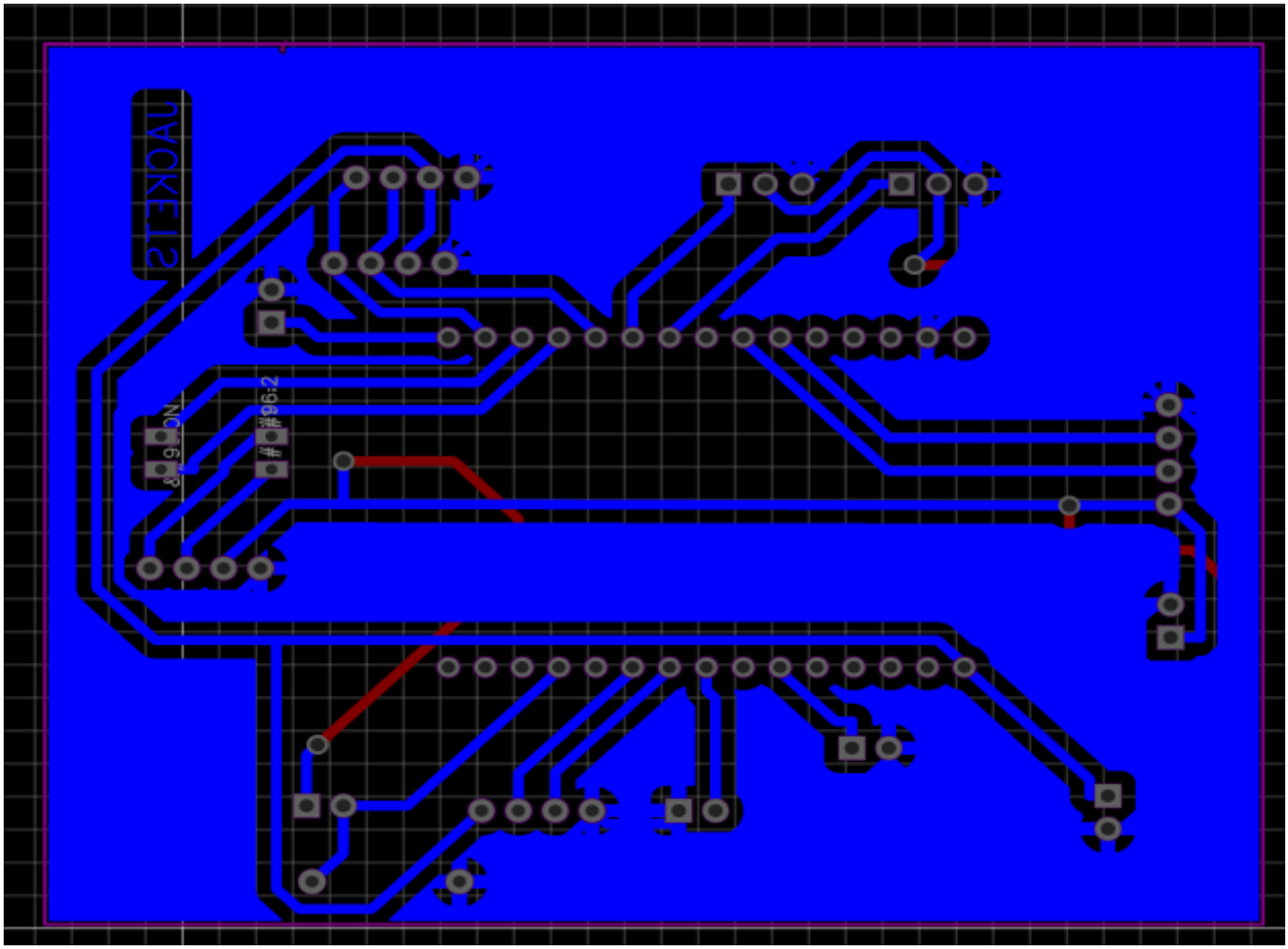
1. **PCB Schematic**: The PCB schematic represents the electrical connections and components used in the project. It includes the ESP32 controller, sensors, headers, power lines, and interface components. This schematic acts as the blueprint, ensuring that every module is connected correctly before PCB routing.



2. **PCB Layout:** The PCB layout shows the physical design of the board, including copper traces, vias, pads, and component placement. It converts the schematic into a real-world manufacturable PCB. The layout ensures proper routing, grounding, spacing, and signal integrity for stable operation.



3. EDA Design: The EDA (Electronic Design Automation) design illustrates the circuit creation process using tools like Easy EDA. It includes circuit creation, simulation, component selection, and preparation for PCB fabrication. Below are the diagrams included.