### ****🛠 Pin Connections****

| **Component** | **Pin Name** | **Board Pin (RuggedBoard A5D2X)** |
| --- | --- | --- |
| **HC-05 Bluetooth Module** | TX | RX (UART3) - GPIO 3 (/dev/ttyS3) |
|  | RX | TX (UART3) - GPIO 4 (/dev/ttyS3) |
|  | VCC | 3.3V / 5V |
|  | GND | GND |
| **Motor Driver (L298N)** | IN1 (Motor 1 Forward) | GPIO 23 |
|  | IN2 (Motor 1 Backward) | GPIO 24 |
|  | IN3 (Motor 2 Forward) | GPIO 14 |
|  | IN4 (Motor 2 Backward) | GPIO 15 |
|  | VCC | 12V (For motors) |
|  | GND | GND |
| **Ultrasonic Sensor (HC-SR04)** | TRIG | GPIO 12 |
|  | ECHO | GPIO 13 |
|  | VCC | 5V |
|  | GND | GND |

**OUTPUT**

https://drive.google.com/file/d/1sAwmsubXj5E6vu5oWXca8hJEfK3uBr--/view?usp=drivesdk