DIY Fish Finder Build Checklist

Core Components

[ ] Sonar Sensor (e.g., HC-SR04 or Airmar-compatible)

[ ] Microcontroller (e.g., Raspberry Pi 4 or Arduino UNO)

[ ] Power Supply (USB battery bank or 12V rechargeable pack)

[ ] Display (LCD screen or smartphone with Bluetooth)

[ ] Waterproof Enclosure (Pelican case or 3D-printed box)

[ ] Breadboard and jumper wires

[ ] Marine-grade sealant or waterproof epoxy

Optional Upgrades

[ ] GPS Module (for location tagging)

[ ] Bluetooth or Wi-Fi Adapter

[ ] Voice Control Module (ReSpeaker or similar)

[ ] Solar Charging Panel

[ ] 3D-Printed Mounting Arms or Brackets

[ ] Waterproof Cable Glands

[ ] Silica Gel Packs (for moisture control)

Tools You Might Need

[ ] Soldering iron and solder

[ ] Wire stripper and small screwdriver

[ ] Multimeter (for testing connections)

[ ] Hot glue gun or double-sided tape

[ ] Zip ties and Velcro strips