1. **Project Initialization & Research Completion**

1.1Requirement Analysis

1.2User Needs Analysis

1.3 Stakeholder Analysis

1.4 Previous Research Review

2. **Recreating distance measurement function**

2.1 Configure development environment

2.2 Data reception and interpretation from master beacon

2.3 Minor beacon send signals and confirm that received value from master beaconincreases as distance increases.

3. **Conceptual design**

3.1 Functional flow block diagram

3.2 Concept selection

3.3 Design architecture

3.4 functional allocation

4. **Firmware modification**

3.1 Master beacon software updated to support multiple slave beacons

3.2 Slave beacon communication logic implemented

3.3 Initial validation of underwater signal stability

**5.Real-World Testing &Data Collection**

5.1 System tested in Real-world Environment

5.2 Adjustments made based on real-world feedback

6. **Documentation & Presentation Preparation**

6.1 Experimental results analyzed and documented

6.2 Technical report and draft paper completed

6.3 Presentation slides prepared