Sure, here is a basic assurance case for the BlueROV2 system using Goal Structuring Notation (GSN):

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- Goal: BlueROV2 is safe for underwater exploration

- Strategy: Decomposition by system lifecycle

- Goal: BlueROV2 design is safe

- Strategy: Decomposition by sub-system

- Goal: Mechanical system is safe

- Evidence: Mechanical testing results

- Evidence: Stress analysis report

- Goal: Electrical system is safe

- Evidence: Electrical safety certification

- Evidence: Circuit design review

- Goal: Software system is safe

- Strategy: Decomposition by software components

- Goal: Navigation software is safe

- Evidence: Testing and validation reports

- Goal: Communication software is safe

- Evidence: Code review documentation

- Evidence: Integration test results

- Goal: BlueROV2 manufacturing is safe

- Evidence: Quality control procedures

- Evidence: Compliance with manufacturing standards

- Goal: BlueROV2 operation is safe

- Strategy: Decomposition by operational scenario

- Goal: Safe operation in normal conditions

- Evidence: Operator training certificates

- Evidence: Operational manuals

- Goal: Safe operation in emergency conditions

- Evidence: Emergency procedures documentation

- Evidence: Drill and exercise reports

- Goal: BlueROV2 maintenance is safe

- Evidence: Maintenance schedule

- Evidence: Maintenance logs

- Context: Defined operational environment

- Justification: Safety is critical for preventing harm to operators and the environment

- Assumption: All subsystems and components must operate within specified limits

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In this assurance case, the top-level goal is to ensure that the BlueROV2 is safe for underwater exploration. This goal is broken down using a strategy based on the system lifecycle, encompassing design, manufacturing, operation, and maintenance. Each of these areas is further decomposed into specific goals with associated evidence to support their achievement. The context, justification, and assumptions are also incorporated to provide a comprehensive understanding of the assurance case.