# Requirements

**Project Name**: RADAR

## High level requirements:

|  |  |
| --- | --- |
| **ID** | **Description** |
| HL\_01 | If OFF, the system must turn ON with the press of the on-board button |
| HL\_02 | If ON, the system must turn OFF with the press of the on-board button |
| HL\_03 | Platform must rotate, on top of a motor, in a to and fro motion in a range of 1800 |
| HL\_04 | Distance must be always calculated |
| HL\_05 | Any object within the range of the SR-04 must be detected |

## Low level requirements:

|  |  |
| --- | --- |
| **ID** | **Description** |
| LL\_01 | When the on-board button is pressed, the ***respective*** register must toggle |
| LL\_02 | Motor must turn in both directions at a moderate speed |
| LL\_03 | SR-04’s ***prerequisites*** must be satisfied |
| LL\_04 | Distance must be calculated |