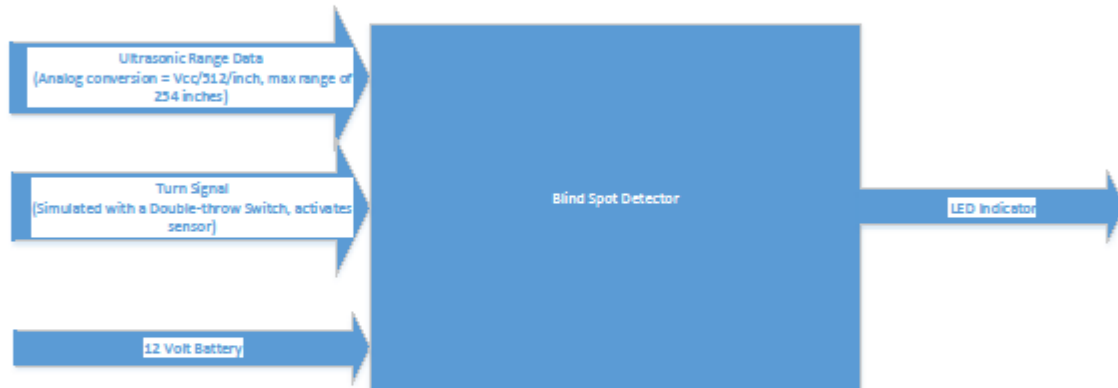


Level 0 Block Diagram



| Module | Level 0 System |
|---------------|--|
| Inputs | <ul style="list-style-type: none"> - Ultrasonic range data, analog voltage converted to distance, $(V_{cc}/512)/\text{inch}$ |
| | <ul style="list-style-type: none"> - Turn signal, simulated with a double-throw switch |
| | <ul style="list-style-type: none"> - 12 volt car battery |
| Output | <ul style="list-style-type: none"> - LED Indicator |
| Functionality | Detector will light the LED based on a certain analog voltage received from the sensor and a 5 volt output from the NMOS voltage buffer. This LED indicates to the user that there is an object detected in the blind spot range while the user is signaling a turn. |