**Literature Survey:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Authors | Year of Publication | Technology used | Methodology  used | Conclusion | Future Work | Your  work |
| Smith J | 2017 | Arduino  IDE | Arduino as the primary technology for the project. | Arduino implementation yielded satisfactory results in achieving the desired objectives. | Further exploration Arduino application. | Arduino and exploring additional  features |
| Patel A | 2018 | Smart Traffic Management Systems | jumper wires as a connectivity solution in their project. | jumper wires effectively enabled proper electrical connections | different types of jumper wires | I plan to experiment with different configurations and lengths of jumper wires |
| Liu, Q. | 2019 | Sensors: | The author utilized PCB board in their project | utilized a PCB board in their project. | investigate for their potential | PCB board would be valuable for future reference and knowledge sharing. |
| Wang h | 2021 | Microcontrollers | used a data cable as a means of transmitting information or signals in their project. | The data cable proved to be an medium, ensuring reliable data transfer. | Data cable is used for uploading the code into the  Arduino board | the utilization of high-speed data and more secure data communication. |
| Gonzalez, M | 2022 | Controllers | utilized a breadboard as a prototyping platform in their project. | The breadboard facilitated the rapid assembly and testing of electronic. | Advanced breadboard designs with increased functionality | breadboard layouts are tailored to specific circuit requirements,. |
| Lee and Kim | 2022 | Communication Networks | 5mm red LED is used signal purposes. | 5mm red LED for brightness and colour | Needed to explore | aim to LED colours luminous intensity. |
| Johnson | 2016 | Battery Backup Systems | 5mm yellow LED is used for signal purposes. | 5mm yellow LED demonstrated brightness and colour | The 5mm yellow LED exhibited satisfactory and colour | plan to experiment with different LED colour |
| Michael | 2013 | Emergency Vehicle Pre  emption Systems | 5mm green LED is used for signal purposes. | 5mm green LED demonstrated and brightness and colour | The 5mm green LED exhibited satisfactory and colour | I intend to investigate innovative LED packaging techniques |
| Alwin | 2015 | Power Supply | employed a buzzer as an audio signal device in their project. | The buzzer successfully produced the desired sound or tone for audial alerts or notifications | Needed to investigate different types of buzzers for frequencies. | to design and implement custom sound patterns using buzzers |