Project Light Sock

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# Executive Summary

Description of product to the layman. Why should they care.

# Features

Specific features that the product should implement. The parts of the whole.

# System Diagram

A visual diagram and general description of how the system should work together. The whole.

# Hardware

Description of the hardware implementation. Assembly and Bill Of Materials.

[Diagrams]

[Bill of Materials]

|  |  |  |  |
| --- | --- | --- | --- |
| Part | Role | Price | Link |
| Long socks | LED holder |  |  |
| Addressable LED strip | Lights |  |  |
| Teensy | Data processor / LED controller |  | <https://www.pjrc.com/store/teensy.html> |
| ??? | Accelerometer |  |  |
| USB Battery (small) | Circuit power |  |  |
| Thread | LED anchor |  |  |
| Level shifter? | Inter-board voltage converter? |  | <http://www.digikey.com/product-search/en/integrated-circuits-ics/logic-translators-level-shifters/2556437?k=level+shifter&k=&pkeyword=level+shifter&pv64=1&pv1912=1&FV=1b880002%2C1ddc0002%2Cfff40027%2Cfff80215%2C1de80002&mnonly=0&newproducts=0&ColumnSort=0&page=1&stock=1&rohs=1&quantity=0&ptm=0&fid=0&pageSize=25> |

# Software

Description of the software implementation. Algorithms and data flow.