

Ioterra, Inc.

**<Product/Project Name>**

PRODUCT REQUIREMENTS DEFINITION

**<DATE>**

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|  |
| --- |
| Product Description: <CLIENT AND PRODUCT NAME> |
| Market Need | Why does the world need this product? What is the problem that this device is going to solve? |
| Key Features/ Functionality | 1. Tell us here about the key features of the product and the functions it will perform.
2. …
 |
| Other Product Compatibility | 1. If the device must work within a system of other devices, tell us about that here.
2. ...
 |
| Stakeholders |
| End Users | Who are the end users for the device? |
| OEMS | Is the device going to be integrated into machinery, equipment, or products sold to others? |

COMMERCIAL AND REGULATORY

|  |  |
| --- | --- |
| Countries of Sale |  |
| Target Launch Date |  |
| Regulatory Requirements |
| Safety (UL, CE) |  |
| Emissions (FCC, CE) |  |
| Interoperability (Cellular, Wi-Fi) |  |
| Labeling |
| Regulatory Marks |  |
| Country of Origin |  |
| Serial Number |  |
| Financials |
| BOM Cost |  |
| COGs |  |
| MSRP |  |
| Acceptable Margin |  |
| Volume |
| MOQ of First Production Run |  |
| Annual Volume |  |
| Timeline for Product Refresh (EOL) |  |

ENVIRONMENT

|  |
| --- |
| Storage Environment |
| Temperature Range |  |
| Operating Environment |
| Indoor, Outdoor, Wearable |  |
| Temperature Range |  |

INDUSTRIAL DESIGN

|  |  |
| --- | --- |
| Branding |  |
| Renderings | N/A – PCB shall be placed in COTS environmental enclosure. PCB should be about ~4” x 4” x 1-2” desired. Prototypes will be larger. Does not have to be square. You can insert a picture here…1. *For Example: This is a yo-yo.*
 |
| Color, Material, and Finish (CMF) |  |
| Logo size and placement |  |
| Connectors (Power, USB, Lighting, Audio) |  |
| Visual Interface (Screen size and type, LEDs) |  |
| Touch Interface (Mechanical actuators/switches, touch sensitivity, haptics) |  |
| Audio Interface(Microphones, speakers, buzzers) |  |

Mechanical

|  |  |
| --- | --- |
| Dimensions |  |
| Weight |  |
| Mounting |  |
| Form Factor(If important) |  |

SOFTWARE AND DATA PROCESSING

|  |  |
| --- | --- |
| Firmware Functions/Algorithms |  |
| Cloud Application |  |
| Smartphone Application |  |
| Transmitted Data and Rates |  |

ELECTRICAL HARDWARE

|  |
| --- |
| Block Diagram of Electrical Hardware |
| Image result for electrical diagram: wheatstone bridge1. *For Example: This is a Wheatstone Bridge*
 |
| Inputs /Sensor Requirements |  |
| Output/Actuator Requirements |  |
| Critical BOM Components |  |
| Communication Requirements |  |
| Power Requirements  |   |

DURABILITY

|  |  |
| --- | --- |
| Lifetime requirements |  |
| Cycles of various sub-systems |  |
| Chemical resistance (sweat, sebum, sunscreen, salt water) |  |
| UV resistance (sunlight) |  |
| Environmental (Dust, Water, etc.) |  |
| Mechanical (Drop, Vibration, Abrasion, etc.) |  |

PACKAGING

|  |  |
| --- | --- |
| In the Box |  |
| Printing, colors, inserts, cardboard type, drop requirements |  |
| Retail Requirements |  |
| SKU Combinations |  |

Serviceability

|  |  |
| --- | --- |
| Repair Services |  |
| Returns Process |  |
| Repair/Return Qualifications/Tolerances |  |
| Customer Support System |  |

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Changes** |
| **1.0** |  |  | **Initial Document Prepared** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |