**INDUSTRIAL EMBEDDED**

**REQUIREMENTS & SPECIFICATION**

**For [XYZ]**

1. Basic Info:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Customer Name |  | | | |
| Project Name |  | | | |
| Projected Quantities | Prototype | Year 1 | Year 2 | Year 3 |
|  |  |  |  |
| Brief System Overview |  | | | |

1. I/O (GPS, accelerometer, temperature, voltage, current, digital, control, etc):

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Signal Name | I/O | # | Rate | Voltage Range | Protocol & wired vs wireless | Description |
|  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |

1. Embedded function descriptions:

|  |  |
| --- | --- |
| Name | Description |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Data Logging |  |
| Remote Access (& wired vs wireless) |  |
| Fault Monitoring |  |

1. GUI Elements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Action or Display | Type (button, radio, checkbox) | Timing | Behavior |
|  |  |  |  |  |
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GUI mockups:

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| --- |
|  |

1. Packaging & Physical Requirements:

|  |  |  |  |
| --- | --- | --- | --- |
| SWaP | Size | Weight | Power |
|  |  |  |
| Packaging & Connectors |  | | |

1. Environmental Requirements:

|  |  |
| --- | --- |
| Certifications and standards required (UL, CE, SIL, IEC, MIL) |  |
| Safety |  |
| Cybersecurity |  |
| EMI/EMC |  |
| Temperature |  |
| Humidity |  |
| Vibration |  |
| Shock |  |
| Future HW/SW expandability |  |

1. Customer-supplied or preferred HW & SW components list:

|  |  |  |  |
| --- | --- | --- | --- |
| Quantity | Part # | Brief description | Supplied by (customer, VSI) |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

1. What’s out of scope?

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|  |

1. Is there trade space to consider either at proposal time or during development?

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1. Additional Project info:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Documentation required | Design | ICD | Users Guide | Other? |
|  |  |  |  |
| Acceptance testing scenario and criteria |  | | | |
| Special milestone meetings (e.g. PDR, CDR)? |  | | | |
| Additional status? |  | | | |
| Shipping? |  | | | |
| Maintenance? |  | | | |
| Logistics? |  | | | |
| Support? |  | | | |
| Warranty? |  | | | |