

*This document includes two AI prompts that help you prepare a complete and structured request.*

## **Prompt #1**

I am preparing a request for Hardware MVP Development by the EnCata team and want to make sure my input contains enough information to start the work without delays, incorrect assumptions, or major redesign later.

Here is my current input:

**"<<<INSERT YOUR INPUT HERE>>>"**

At EnCata, a request for Hardware MVP Development should clarify the following areas:

### 1. Product overview

- What type of product or device is being developed
- What problem the product solves
- What stage the product is currently at: idea, PoC, prototype, or existing MVP
- Whether any hardware, electronics, firmware, or enclosure already exist

### 2. MVP goals and validation purpose

- Whether the MVP is intended for investor presentations, user testing, pilot discussions, exhibitions, or internal validation
- What should be demonstrated during MVP usage
- Which product assumptions should be validated first

### 3. Core functionality requirements

- What the MVP must actually do
- Which functions are critical for demonstrations or testing
- Which features are intentionally excluded from the MVP stage

### 4. User interaction and appearance expectations

- Whether the MVP will be handheld, wearable, desktop, portable, wall-mounted, or integrated into another system
- Whether industrial design or visual appearance is important for demonstrations
- Whether ergonomics or physical interaction are critical at this stage

### 5. Electronics and embedded system requirements

- Sensors, connectivity, displays, motors, batteries, or other hardware modules required in the MVP
- Whether custom electronics, dev boards, or existing modules are preferred
- Expected operating time, charging behavior, or power limitations

### 6. Mechanical and enclosure requirements

- Approximate device dimensions or size limitations
- Preferred enclosure materials or manufacturing methods, if known
- Whether the device must survive transportation, repeated demos, or basic field testing

### 7. Software and connectivity requirements

- Whether the MVP requires firmware, cloud connectivity, dashboards, or backend integration
- Communication interfaces: Bluetooth, Wi-Fi, LTE, LoRa, USB, CAN, or others
- Whether mobile app development is expected or excluded

### 8. Demonstration and testing conditions

- Where the MVP will be demonstrated or tested

- Indoor, outdoor, industrial, laboratory, or consumer environments
- Temperature, vibration, moisture, dust, or transportation conditions, if relevant

9. Production and scalability expectations

- Whether the MVP is expected to evolve into pilot production or manufacturing later
- Expected future production volume, if known
- Whether BOM cost or manufacturability already matters at the MVP stage

10. Timeline and business constraints

- Target demonstration date, investor meeting, trade show, or pilot launch
- Budget expectations or known limitations
- Whether development speed or appearance is a higher priority

11. Existing materials and project inputs

- Available sketches, CAD models, electronics, firmware, mockups, BOMs, prototypes, or test results
- Known engineering decisions that should not be changed

12. Risks and open questions

- What is still unclear or undecided
- Known concerns related to functionality, enclosure design, electronics, power systems, usability, or future manufacturing

Your task:

- Identify missing, unclear, or weakly defined areas in my input.
- Structure your answer by the categories above.
- For each gap, briefly explain why it is important for Hardware MVP Development.

Do not rewrite my request. Focus only on identifying gaps.

Important instructions for your response:

- When describing missing information, use clear and non-technical language whenever possible.
- Avoid unexplained engineering abbreviations or specialist terminology.
- Keep each clarification request short and practical.
- Focus on helping a non-engineering person understand what information is needed and why.
- If a technical term is necessary, briefly explain it in simple language.

## Prompt #2

I am continuing preparation of my Hardware MVP Development request based on your previous analysis.

Here is my initial input:

**"<<<INSERT INITIAL INPUT HERE>>>"**

Here is the additional information I have provided to fill the gaps:

**"<<<INSERT ADDITIONAL INFORMATION HERE>>>"**

At EnCata, Hardware MVP Development requires clarity in the following areas:

1. Product overview
2. MVP goals and validation purpose
3. Core functionality requirements
4. User interaction and appearance expectations
5. Electronics and embedded system requirements
6. Mechanical and enclosure requirements
7. Software and connectivity requirements
8. Demonstration and testing conditions

9. Production and scalability expectations
10. Timeline and business constraints
11. Existing materials and project inputs
12. Risks and open questions

Your task:

1. Re-evaluate the combined input (initial + additional information)
2. Identify what is still missing, unclear, or weakly defined
3. Structure your answer by the categories above
4. Based on the available information, compile a structured Hardware MVP Development request for EnCata

If some information is missing, make reasonable assumptions and clearly mark them as assumptions.

Structure the final request as follows:

1. Project overview
2. MVP goals and validation purpose
3. Core functionality requirements
4. User interaction and appearance expectations
5. Electronics and embedded system requirements
6. Mechanical and enclosure requirements
7. Software and connectivity requirements
8. Demonstration and testing conditions
9. Production and scalability expectations
10. Timeline and business constraints
11. Existing materials and project inputs
12. Risks and open questions
13. Expected MVP development outcome

Output requirements:

- A structured draft request for EnCata
- Clearly mark assumptions or missing data
- Keep the response clear and structured
- Do not include explanations outside of this output