B. Prompting Details for ChatGPT-4.0 PART1

Prompt: no "markdown and "at start and end

create a detailed and structured requirements list that can be used for product

development for {product}, use Markup to structure the text,

do not use explanations, just provide the necessary information/facts about this list. End

after you provided "4. Service Life and Maintainability and its points"

Follow this Structure:

Product Design Specifications Document for {product}

1. Main Function

Description	Clearly define the primary purpose of the product. What is the product designed to
	achieve or facilitate? Specify the main functional goal.
Key	List the key features that enable the main function. These should include any unique
Features	selling points or critical operational capabilities.

Key Features: List the key features that enable the main function. These should include any unique selling points or critical operational capabilities.

2. Functionally Determined Properties

Performance	Specify the essential performance metrics that the product must meet, such as
Requirements	power output, inputs, modes of action, speed, efficiency, and capacity.
Functionality	List all required functionalities in detail, ensuring that each function aligns with the
	main purpose of the product.

3. Operational Properties

Operating	Detail the environmental and operational conditions under which the product is
Conditions	expected to perform. Be creative
User	Outline how users will interact with the product. Include user interface requirements,
Interaction	mechanical controls, buttons, signals and feedback systems.
Support	Specify any additional systems or services needed for the product to operate
Systems	effectively, such as software, network requirements, or external devices.

4. Service Life and Maintainability

Expected Lifespan:	State the expected operational lifespan of the product under typical usage conditions in years. Provide specific time frames or cycles of use. Outline the maintenance or service intervals and the type of maintenance activities required to maximize the product's lifespan. Define the reliability requirements in quantitative terms, such as expected mean time between failures (MTBF).
Common	Define the core product modules. Include any industry-specific testing protocols.
pitfalls and	Describe the level of fault tolerance required in specific operational usage time.
important	Detail any redundancy or backup systems that must be in place.
product parts:	
End-of-Life	Imagine an end-of-life plan for the product, including recycling, refurbishing, or
Handling:	disposal procedures. Include considerations for environmental impact and materials
	that could be recycled. Give specifications
Service	Provide comprehensive service manuals with detailed instructions on maintenance
Manuals:	procedures, including troubleshooting guides and schematic diagrams. Give
	specifications
Standardized	Use standardized parts where possible to minimize the variety of spare parts needed
Parts:	and simplify procurement. Give specifications

B. Prompting Details for ChatGPT-4.0 PART2

Prompt: no "markdown and "at start and end

use Markup to structure the text,

start with "5. Safety" no extra title.End with "9. Economics" its points no extra explanation

about the output after it

Follow this Structure as in instruction and adapt it to {product}. Execute on it:

5. Safety	,
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Fail-Safe	Design the product with auto-shutoff features, that prevent or minimize risk of injury
Mechanisms:	or damage in the event of a malfunction. Give specifications
Protective	Include necessary guards, testing methods and warnings to protect users from
Features:	potential hazards inherent in the product's operation. Give specifications

6. Ergonomic Properties

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User Interface:	Design interfaces that are intuitive and easy to use, with controls within easy reach and visibly labeled. Consider the use of touchscreens or voice-activated controls for enhanced usability. Give specifications
Accessibility:	Design all components to be easily accessible for maintenance and repair. Components like batteries or filters should be reachable without specialized tools. Implement a modular design that allows individual components to be replaced or upgraded independently, reducing downtime and maintenance costs. Give specifications
Physical Comfort:	Ensure that any physical interaction with the product does not strain the user. If the product requires manual interaction, adjust height and angles to accommodate a wide range of users
Visual and Auditory Feedback:	Incorporate clear visual or auditory signals to indicate active processes or issues, enhancing user understanding and interaction. Give specifications
Dimensions:	Provide exact dimensions. Specify more space for ventilation or connections (power and cables)

7. Appearance and Design

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Aesthetic	Design a product that is visually appealing to the target market and that aligns with
Design:	current design trends while remaining timeless. Consider the color, shape, and texture
	that reflect the product's branding and intended market. Give specifications
Finish and	Use finishes that are durable, easy to clean, and attractive. The material choices should
Materials:	also reflect the product's positioning in the three price categories. The user experience
	should ensure that the product is intuitive and easy to use. Give specifications
Branding:	Incorporate branding elements such as logos, color schemes and general usage to
	enhance the overall design so it is easily recognizable. Make specific design
	suggestions for user experience

8. Law and Standards

Regulatory	Identify and comply with all relevant local, national, and international regulations
Compliance:	affecting the product, such as safety, environmental, and import/export laws. List
	the laws and what they mean for the product. Give specifications
Certifications:	List required certifications (e.g., CE, FCC, ISO) that the product must obtain to be sold
	in specific markets. Provide a plan for achieving these certifications, including testing
	phases and responsible parties. What does the Standard do, and how does it it
	influence product design

Relevant	Ensure that any physical interaction with the product does not strain the user. If the
Patents:	product requires manual interaction, adjust height and angles to accommodate a
	wide range of users. Give specifications.

9. Economics

Pricing	Develop a pricing strategy and give 3 price brackets: budget pricing, middle of the
Strategy:	market, and premium
Alternative	Give different approaches to make revenue with the product. Like making the product
Revenue	cheap and making money with consumables. Show different ways other than selling
Strategies:	the product with profit