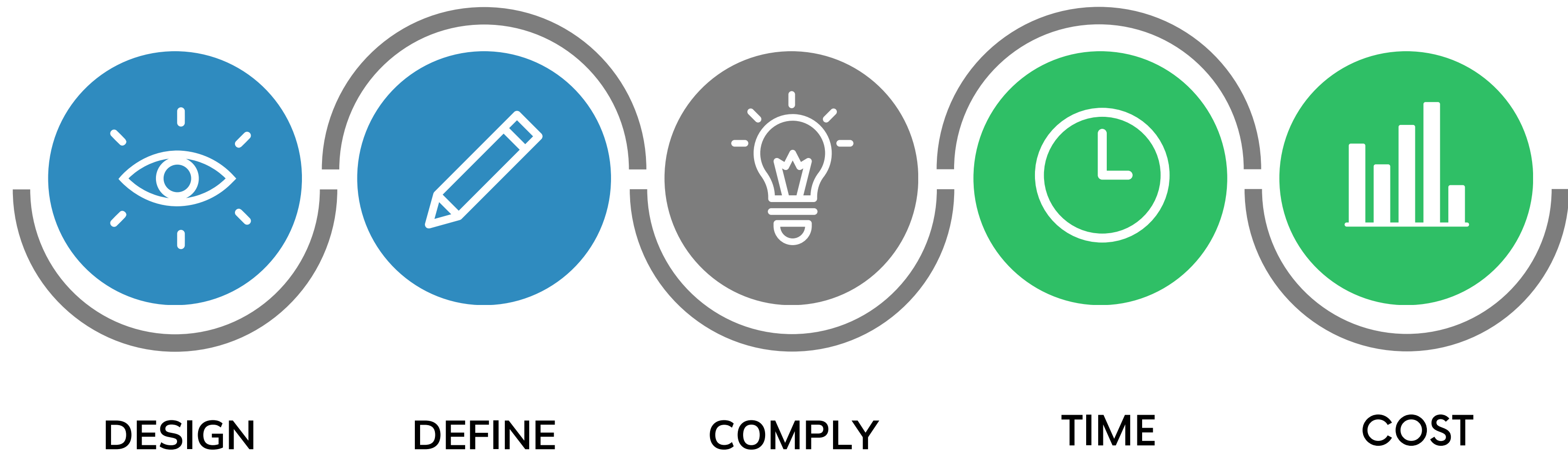


THE WINNING PROTOTYPE

A STEP-BY-STEP CHECKLIST



Design is a critical aspect of your prototype's success. This checklist provides actionable tips to ensure your prototype stands out for all the right reasons.

Designing your prototype for functionality and user satisfaction is paramount. This chapter offers a checklist with actionable steps to ensure your prototype aligns with engineering excellence.

Compliance design requires a thorough grasp of how your prototype fits into the larger context. Find a checklist in this chapter to evaluate viability and component compatibility.

Time is money, and efficient project management is key. We delve into project timelines, iteration cycles, and schedules to help you streamline the development process.

Cost considerations can significantly impact the success of your prototype. In this chapter, you'll find a checklist that guides you through a comprehensive cost analysis, ensuring you stay within budget and optimize your resources.



THE WINNING PROTOTYPE

A STEP-BY-STEP CHECKLIST

REQUIREMENTS

CONTROL

BEST VALUE



DESIGN

The Look - Appearance and Cosmetics

- ☐ Define the desired aesthetics for your prototype.
- ☐ Select appropriate colors, shapes, and visual elements.
- ☐ Ensure that the design aligns with your brand's image.

The Feel - Material

- ☐ Choose materials that match the intended look and functionality.
- ☐ Verify that the selected materials are readily available.
- ☐ Determine if the materials are environmentally friendly.

The Handling - Form and Function

- ☐ Evaluate whether the design serves the intended purpose and user experience.
- ☐ Ensure that the design meets ergonomic standards.
- ☐ Address any potential design flaws or safety concerns.

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DEFINE

User-Centric Functionality

- ☐ Ensure that the design makes sense to the end-user.
- ☐ Verify that the prototype functions as expected.
- ☐ Address any potential design flaws or safety concerns.

Quality Assurance

- ☐ Ensure that the prototype is designed for lasting quality.
- ☐ Verify the durability of the prototype.
- ☐ Address any quality control issues.
- ☐ Verify that the prototype functions as expected
- ☐ Address any potential design flaws or safety concerns.



COMPLY

Integration with Components

- ☐ Verify that the prototype design works seamlessly with other components.
- ☐ Ensure compatibility with power sources and electrical systems.
- ☐ Consider antenna placement and compatibility.

Assembly and Disassembly

- ☐ Verify that the prototype is easy to assemble and disassemble.
- ☐ Ensure reusability and recyclability.
- ☐ Address potential wear and tear concerns.



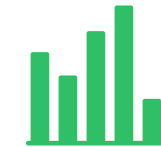
TIME

Project Timeline

- ☐ Establish a realistic timeline for prototyping and product development.
- ☐ Plan for iterative testing and feedback.
- ☐ Monitor project progress and timeline adherence.

Test, Quality and Durability

- ☐ Ensure adequate time for comprehensive testing.
- ☐ Validate that the prototype will meet quality standards.
- ☐ Consider time for long-term durability assessments.



COST

Budget Considerations

- ☐ Align your budget with the complexity of the prototype.
- ☐ Plan for potential cost overruns.
- ☐ Explore cost-effective alternatives.

Cost Analysis

- ☐ Assess the overall cost, including materials and labor.
- ☐ Evaluate the cost-effectiveness of design choices.
- ☐ Address cost considerations at each project phase.

Cost Control

- ☐ Implement a cost control plan.
- ☐ Maintain transparency and communication.
- ☐ Continuously identify opportunities for cost reduction.

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