

Roadmap:

Integration of Technologies to Optimize System Design (2025-2030)

2025

Q1-Q2:

Research and Evaluation:

Evaluate emerging technologies in IA Designer and Cloud Computing for integration into the design process.

Research and select AI platforms and cloud computing tools that are compatible with the project objectives.

Q3-Q4:

Initial Implementation:

Introduce IA Designer into the design process to explore the generation of creative and optimized solutions.

Configure Cloud Computing infrastructure to facilitate collaboration and large-scale data processing.

2026

Q1-Q2:

Capacity Development:

Train the team in the effective use of IA Designer and cloud resource management.

Explore applications of Thermal in design to improve thermal management of systems.

Q3-Q4:

Pilots and Tests:

Conduct design pilots using AI Designer and thermal analysis to evaluate their impact on process efficiency.

Integrate Blockchain into design data management to improve security and traceability.

2027

Q1-Q2:

Continuous Optimization:

Refine AI Designer models using data collected during pilots to improve the accuracy and quality of design suggestions.

Implement Blockchain-based solutions to guarantee the authenticity of datasheets and the integrity of components.

Q3-Q4:

Scalability and Efficiency:

Expand Cloud Computing infrastructure to meet growing demands for data processing and simulations.

Automate the generation of quotations and footprint management to improve efficiency in the production phase.

2028

Q1-Q2:

Standardization and Continuous Improvement:

Establish design standards based on GD&T and stack up to ensure dimensional accuracy in all products.

Implement PLM tools to centralize product lifecycle management and improve collaboration between teams.

Q3-Q4:

Validation and Optimization:

Develop a virtual lab to perform virtual design tests and optimize systems before physical production.

Explore generative tools to automate repetitive design tasks and free up resources for innovation.

2029-2030

Q1-Q4:

Expansion and Consolidation:

Expand the integration of design technologies across all business units and projects.

Continue research and development of new technologies to stay at the forefront of innovation in system design.