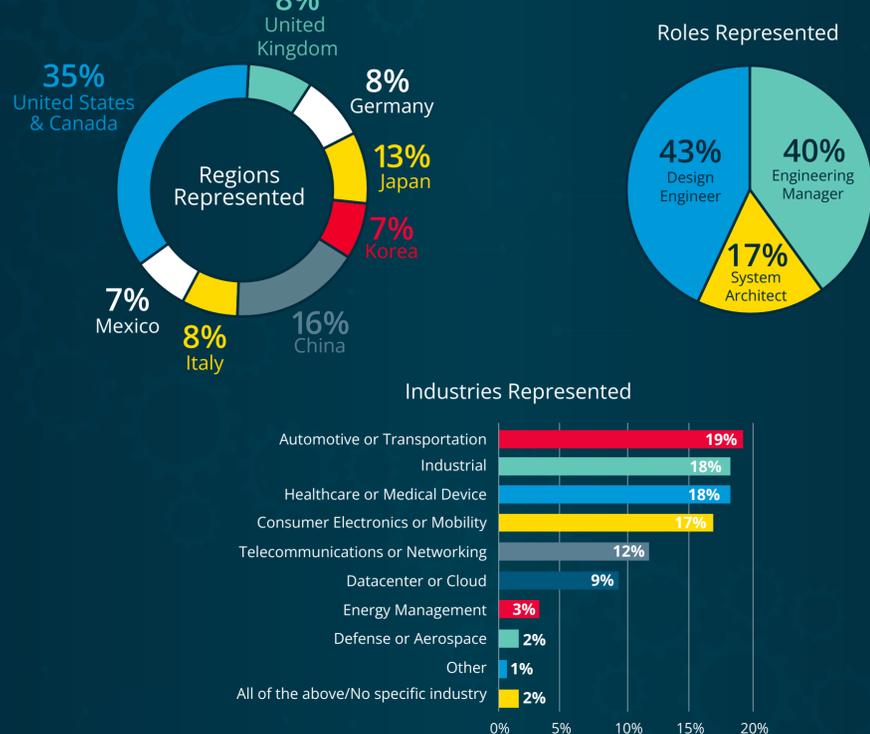


# RELIABILITY AND HARDWARE DESIGN

A Survey of System Architects and Design Engineers

A product's perceived reliability is critical to both brand reputation and continued customer loyalty. But reliability is a complex subject, and design engineers face shortening design cycles, growing electronic complexity, increasing customer expectations and a changing workforce. How can the engineering community ensure reliability while navigating the evolving list of considerations and potential tradeoffs?

We surveyed **756** design engineers and system architects to learn more about the current state of reliability, the challenges they face and the innovations to come.



## KEY TAKEAWAYS & INSIGHTS

Design engineers and system architects shared their experiences, challenges and opinions about designing reliable products and systems. Responses were captured in October 2023.

### The State of Reliability



Only **18%** say they develop verification and validation plans before the first phase of design

Companies are almost **2X** more likely to overdesign for reliability than pursue the lowest cost solution

### Today's Challenges



### The Future of Reliability



Explore the complete report to learn more about how the reliability of electronic products is influencing design, resourcing, customer behaviors and future technologies.

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