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Key Issues to Consider When Designing Power Supplies

by

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Abstract: Power supply design is often over simplified and summarized by just a few lines in a specification. While it is true that the end result of a switching regulator or LDO is to simply provide a voltage, there are key conditions (especially transient conditions) that are often overlooked. If these key conditions are not considered in the design of the power supply then they usually cause issues once silicon is examined. In this presentation I will examine some of the issues that I have observed on more than one power supply design, what their root cause was, and how they could have been avoided.

Missy Brady is an alumnus of Texas A&M University and is currently the design manager for the Drivers and Load Switches group at Texas Instruments. She has over 10 years of experience in analog design and has an expertise in designing ICs with high levels of integration. She has designed a wide variety of circuits including various power supplies, FET drivers, ADCs, DACs and many others.

