The future of
Integrated Development Environments

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Abstract

Integrated development environments (IDEs) have been the primary tool for software engineers for decades. Much like an airplane cockpit, an IDE is the control center from which engineers access all the data and tools they need.

While IDEs have been used in software engineering for decades, they are relatively new in the field of electronics engineering. Many of the available IDEs for hardware development have not lived up to the potential of IDEs that is typical in the software world. Instead, hardware-oriented IDEs tend to be overly complex, closed, and they lock the customer in.

Today, engineers call for a unification in design and development tools, especially in those environments where software engineers and electronics engineers work together closely. This requires a modern IDE, which allows access to tools from different vendors and for different languages.

This presentation outlines the benefits of an IDE for embedded systems engineers today, and presents a vision of IDEs tomorrow.