



news & updates June 2026 | Issue 22

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abi

RevEng is Sweet!



RevEng Schematic Learner

CEO's Corner



Dear Colleague,

The unique **ABI RevEng System** is an advanced, controlled reverse-engineering solution designed to transform undocumented printed circuit boards (PCBs) into accurate, professional-quality schematics, or Wirelist files to maintain boards that are no longer available. Whether you are working with obsolete designs, legacy systems, or competitor analysis, RevEng provides a powerful and efficient way to reconstruct circuit diagrams without requiring original documentation or even powering the board..

Alan Lowne

CEO, Saelig Company Inc.

What's New?

[Click here for Update](#)

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At the core of the **RevEng System** is an intelligent continuity-detecting hardware platform paired with System 8 Ultimate software and the fully featured EdWin CAD environment. The system "learns" circuit connectivity through a guided process using clips, connectors, and probes attached to the device under test. System 8 optimizes the sequence of measurements, minimizing operator effort while ensuring complete coverage of connections. Built-in orientation and pin-check validation features reduce user error and confirm correct probe placement. It's significant to note that RevEng



performs all measurements without powering the board, using controlled low voltage and current levels to protect sensitive semiconductor components—making it safe even for low-power and delicate technologies.



Once the connectivity data is captured, [RevEng](#) automatically generates a file that is imported into EdWin, enabling rapid creation of detailed schematics. EdWin's professional-grade capabilities include autorouting, multi-page schematics, bus structures, and access to an extensive library of over 12,000 components. Advanced features such as “rat’s nest” visualization, block manipulation, and optional modules like PCB layout, simulation (EDSpice), thermal analysis, and signal integrity tools allow

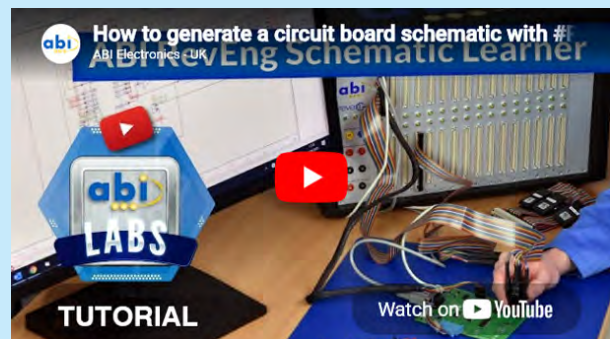
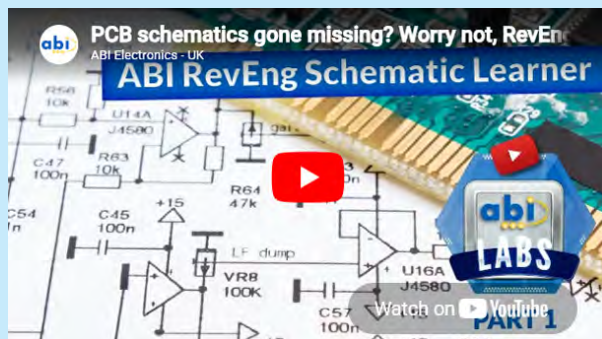
engineers to move seamlessly from reverse engineering to design refinement and validation. These capabilities make same-day schematic generation for complex, unknown boards a practical reality.

[System 8](#) further enhances usability with its intuitive, icon-driven interface, context-sensitive help, and flexible workflow options. Users can perform partial circuit learning, repeat and verify measurements, and even pause or restart projects at any stage. The system supports both digital and analog circuits, including non-standard components through guided probing techniques. This flexibility ensures that RevEng adapts to a wide range of engineering challenges, from simple boards to highly complex assemblies.



To meet varying project requirements and budgets, the [RevEng System](#) is available in multiple configurations. Entry-level systems offer 512 measurement channels, ideal for small to medium-sized circuits, while high-capacity versions scale up to 2048 channels for large, complex designs with high pin counts. This scalability ensures that organizations can select a solution tailored to their specific needs while maintaining a clear upgrade path for future demands.

The [ABI RevEng System](#) delivers significant advantages, including reduced reverse-engineering time, improved accuracy, enhanced protection of sensitive components, and seamless integration into professional CAD workflows. It empowers engineers, technicians, and researchers to quickly recover critical design data, extend product lifecycles, and gain deeper insight into electronic systems.



Click on the images above to watch videos providing more information about RevEng.

What Users and Industry Experts Are Saying

- **UK Ministry of Defence (MoD):** Officials from the MoD and DECA (Defense Electronics & Components Agency) reported that the integration of the RevEng and BoardMaster systems cut testing and repair times by over 50%, saving them tens of millions of pounds by allowing in-house component-level repair rather than replacing whole systems.
- **Industrial and Aviation Giants:** Organizations like Lockheed Martin, Collins Aerospace, Alstom, and AmePower praise the RevEng and associated BoardMaster units for eliminating the tedious, manual work of tracing undocumented PCBs. Reviewers highlight that it streamlines component obsolescence management.

- **Reviewers & Technicians:** Electronics repair publications emphasize that the "clip-and-learn" methodology of the software allows even less qualified technicians to safely reconstruct complicated circuit diagrams, which removes uncertainty from the repair and reverse-engineering process.
- "The introduction of ABI's BoardMaster and RevEng platforms within the MoD has fundamentally strengthened our approach to electronic obsolescence management. High-value assets have been recovered in-house, avoiding costly redesign and replacement. The scale of savings runs into the millions of pounds, but equally important is the preservation of technical knowledge and the protection of operational availability."

Dr. Matt Darkin, PhD
 Senior Specialist Fellow for Obsolescence
 UK Ministry of Defence

For detailed specifications, application guidance, or a personalized demonstration, please contact Saelig Company. Our team is ready to provide expert support and help you determine how the [RevEng System](#) can streamline your reverse-engineering processes.

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