

AI-Powered Electrical Engineering: Alligator Automations Reduces Engineering Effort by 50% with WSCAD ELECTRIX AI

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Bergkirchen, [01 April 2026] – Alligator Automations India Pvt. Ltd., a manufacturer of end-of-line packaging automation systems, has reduced engineering effort in electrical design by around 50% by implementing WSCAD’s E-CAD solution.

The company’s ten-person electrical engineering team now uses WSCAD for creating electrical schematics, control cabinet design, and project documentation. Previously, tasks such as wire numbering, device grouping, and bill-of-materials generation had to be performed manually, resulting in project delays and an increased risk of errors. After switching to WSCAD, many of these steps are now automated, significantly improving both efficiency and design accuracy.

“Tasks that previously required manual work are now automated,” says Sagar Bhavsar, Control Engineering Manager at Alligator Automations. “Wire numbering alone now takes roughly half the time, allowing our team to focus more on complex design and optimization tasks.”

Alligator Automations develops customized automation solutions including robotic palletizing systems, packaging automation, automatic loading systems, and intralogistics conveyor technology. Projects cover the entire value chain – from

design and development to manufacturing, installation, commissioning, and long-term support for customers in industries such as food & beverage, paint & cement, fertilizer & petrochemicals, as well as tyre and agro industries.

“Automation projects are becoming increasingly complex while engineering timelines continue to shrink,” says Dr. Axel Zein, CEO of WSCAD. “At the same time, AI is fundamentally changing how electrical engineering is performed. By automating documentation, verification, and knowledge retrieval, engineers can focus more on system design and optimization instead of repetitive tasks. The Alligator Automations example demonstrates how standardizing the E-CAD environment can significantly increase engineering efficiency.”

Beyond schematic creation, WSCAD supports precise 2D and 3D control cabinet layouts, automatic wire routing, and direct data transfer to cabinet manufacturing systems. This eliminates media discontinuities and reduces sources of error. AI-supported design, documentation, and multilingual translation capabilities further accelerate project delivery while ensuring compliance and data quality.

A detailed case study describing the implementation and workflows at Alligator Automations is available on the WSCAD website: <https://www.wscad.com/us/case-study-alligator-automations/>

Image captions:



Image 1: WSCAD ELECTRIX AI 2026 – The world’s first AI-powered electrical CAD system, redefining innovation and intelligence in electrical design.

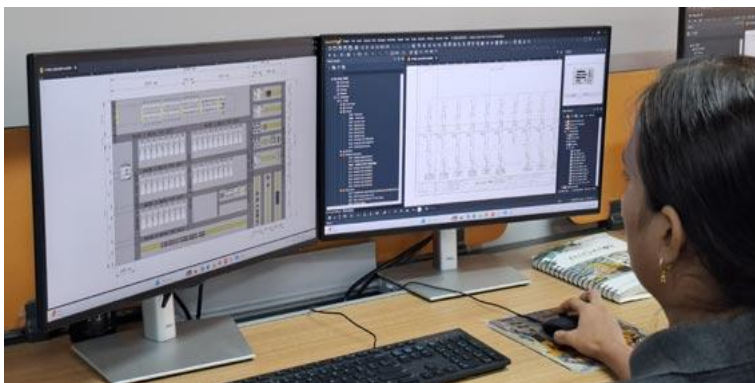


Image 2: Electrical designers at Alligator Automations rely on WSCAD’s AI powered Electrical CAD solution. Dual-monitor setup lets the engineer view circuit diagrams and cabinet layouts side by side for greater efficiency.

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About WSCAD GmbH

WSCAD is the world's first provider of AI-powered E-CAD software and has specialized in electrical engineering solutions for more than 35 years. On a unified platform with a central database, WSCAD integrates six disciplines – from electrical engineering to control cabinet manufacturing and building automation. AI capabilities increase efficiency, enable automation, and make complex tasks accessible even to less experienced users. More than 40,000 users in over 100 countries rely on WSCAD for machine and plant engineering as well as installation technology. Applications such as Cabinet AR and Building AR support digital planning and service processes. The E-CAD data library wscaduniverse.com provides more than 2.2 million item datasets free of charge. The portfolio is complemented by eleven engineering services, ranging from engineering checkups to training and format conversion. WSCAD is part of the Buhl Group.

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