

Booth No. 7A62-27

LUXROBO Co., Ltd.



Year Established	2014.		Type of Business	Manufacturing
Website	http://luxrobo.com/		Main Export Countries	USA, United Kingdom, Luxemburg
SNS	https://www.youtube.com/@Luxrobo			
Main Customer	Domestic Customers		International Customers	
	Elementary, Middle and High Schools		Educational Institution	
The Person In Charge	Name	Department	Position	
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Company Description

Luxrobo is an EduTech startup that originated from a dream of making coding easy for everyone and enabling them to easily create their own robots. Through modular technology aimed at simplifying robot creation, Luxrobo is developing an AIoT (AI + IoT) platform that facilitates the connection between modules, module-to-module, module-to-human, and ultimately, the seamless interaction between technology and the world. The goal is to make the world smarter through Luxrobo's technology.

Product

MODI FACTORY

Function and Usage : MODI Factory is an all-in-one platform in the EDA field. EDA, which stands for 'Electronic Design Automation,' refers to the field where highly specialized individuals in hardware primarily design circuits and produce electronic boards. LUXROBO has integrated various artificial intelligence technologies to simplify circuit design.

Many individuals aren't aware of the components necessary to incorporate desired functionalities into a circuit. Therefore, MODI EDA integrates GPT 4.0 to accept user requirements. GPT 4.0, based on user chats, recommends necessary circuit components. Selected components entail complexities higher than a game of 'Go', requiring not just their placement within the circuit but also routing the interconnections between components. Due to this complexity, implementation without experts was previously impossible. MODI EDA conducts these processes through artificial intelligence. The routing process employs metadata from diffusion models and algorithms utilizing reinforcement learning.

Marketing and Selling Points : MODI Factory represents an integrated development solution that consolidates the entire process, from requirement gathering, component selection, circuit design, to ordering, into a single platform, merging what was previously disparate in the circuit creation process.

While this service might seem unfamiliar to the general public, it addresses the current complexity in the development process where, despite the increasing growth of the IoT market, the number of developers is declining. The aim is to tackle this problem.

MODI Factory's circuit development not only brings together circuit development platforms but also aims to reduce resources for circuit developer

