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Educational Robot Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global educational robot market size reached US$ 1.4 Billion in 2022. Looking forward, IMARC Group expects the market to reach US$ 3.5 Billion by 2028, exhibiting a growth rate (CAGR) of 16.23% during 2023-2028.

An educational robot is a learning support tool that uses realistic educational simulations to facilitate skill acquisition in students of all age groups. It delivers content based on science, technology, engineering, art, and mathematics or applied mathematics (STEAM) fields, along with computer programming, linguistics, history and geography. These robots can perform various functions, including gestures, voice control and advanced mechanics to keep children engaged, entertained and educated. Working with them has proven to result in improved creative problem solving, communication and interpersonal skills among students. Owing to this, these robots find extensive application across academic establishments, such as special-education institutes, schools and colleges offering higher education.

The emerging trend of digitization, along with the increasing utilization of artificial intelligence and machine learning (AI/ML) technologies in the education sector, is one of the key factors driving the growth of the market. Owing to their effective interactive capabilities, educational robots are rapidly being adopted in K-5 and K-12 schools and other educational institutes. Furthermore, widespread adoption of e-learning techniques, including teaching robots, digital whiteboards and flip classrooms, to offer an advantageous way of knowledge dissemination, has provided a boost to the market

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growth. Additionally, technological innovations, such as the development of advanced variants equipped with autonomous navigation and environmental sensors to detect obstacles in the vicinity, have made these robots more user-friendly and enhanced their overall operational ability. Other factors, including increasing investments in the education sector by both government and non-government organizations (NGOs), extensive research and development (R&D) activities in the field of robotics and the availability of affordable educational robots, are projected to drive the market further.

Key Market Segmentation:
IMARC Group provides an analysis of the key trends in each sub-segment of the global educational robot market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on component, product type and end-user.

Breakup by Component:

Hardware
Sensors
Actuator
Power Source
Control System
Others
Software

Breakup by Product Type:

Humanoid
Non-Humanoid

Breakup by End-User:

K-12
Universities
Others

Breakup Region:

North America

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United States
Canada
Asia Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:
The competitive landscape of the industry has also been examined with some of the key players being Adele Robots, Aisoy Robotics, Arrick Robotics, Blue Frog Robotics, DST Robot Co., Hanson Robotics, Idmind, Macco Robotics, Pal Robotics, Primo Toys, Probotics America, Qihan Technology Co., Robobuilder, Robotis, Softbank Robotics Corp., etc.

Key Questions Answered in This Report

1. What was the size of the global educational robot market in 2022?
2. What is the expected growth rate of the global educational robot market during 2023-2028?
3. What are the key factors driving the global educational robot market?
4. What has been the impact of COVID-19 on the global educational robot market?
5. What is the breakup of the global educational robot market based on the component?

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6. What is the breakup of the global educational robot market based on the product type?
7. What is the breakup of the global educational robot market based on the end user?
8. What are the key regions in the global educational robot market?
9. Who are the key players/companies in the global educational robot market?

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