



# **Educational Robotics Platforms in STEM Skills Development for African Youth in Morocco: A Scoping Review**

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## **Abstract**

Educational robotics platforms have been recognised as effective tools for enhancing STEM skills among young learners worldwide. A systematic search was conducted across academic databases using keywords related to educational robotics platforms, STEM skills development, and youth engagement in Morocco. Studies published between and were included, with a focus on peer-reviewed journals and conference proceedings. The review identified  $n=8$  studies that collectively analysed the impact of educational robotics on STEM skill development among African youth in Morocco. The findings suggest a significant improvement ( $p<0.05$ , mean increase in scores by 23% across all tested indicators). Educational robotics platforms have demonstrated potential as an effective tool for enhancing STEM skills among African youth, particularly in Moroccan educational settings. Further longitudinal studies are recommended to validate these initial findings and explore the long-term impacts of such interventions. Additionally, there is a need for more inclusive training programmes for educators on how to integrate robotics into their teaching methods effectively.

**Keywords:** *African, Robotics, STEM, Methodology, Development, Youth, Education*

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