

## **STEMROBO an Age-Appropriate Robotics and AI that helps students in Solving Real-World Problems**

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### **Abstract**

STEMROBO Technology is an actively specialized lab which provide students with hands-on experiences and opportunities to acquire essential 21st-century skills. Early education is always supported as it builds confidence in them by introducing them to modern technologies of AI, robotics, and IoT, which helps them relate theoretical learning to practical applications. Students must develop critical thinking, problem-solving, programming, data literacy, and ethical awareness of technology. This allows them to tailor their offerings specifically for K-12 students, ensuring high quality and innovation. They also have an expert team of educators and technology specialists who collaborate to develop content and methodologies aligned with educational standards. Classrooms are evolving, and the shift goes far beyond smart boards and tablet learning. With the rise of AI and robotics, even students as young as those in Grade 3 have begun to engage with the technologies that will define the future of work. Bringing advanced tools into rural and underserved schools requires more than good intent; it demands innovation tailored to unique challenges. Education landscape is evolving at a rapid pace, fueled by technology, innovation, and the growing need to equip students for a future unlike anything before. This study aims at how AI and STEMROBO Technology learning can be made a Team effort. STEM education in rural area face key barriers like poor infrastructure, limited internet, untrained teachers, and low awareness of future skills. This study also aims at how STEMROBO engage with students and teachers on a daily basis to nurture innovation and creativity. It also highlights how STEMROBO support teachers in implementing STEAM education in their classrooms

*Keywords: STEMROBO Technology, artificial intelligence, technology, education, robotics*