



**Accessing Potential
Through Assistive
Technology**

Learning with Kebbi (RAI) : Where Robots Meet Young Learners



*College of
Education*

**Laboratory for
Innovative Technology in Education**

THE UNIVERSITY OF ALABAMA®



About Me

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- Director of the Laboratory for Innovative Technology in Education (LITE)
- Former Middle School Teacher (History and Career Tech)

Overview of the College of Education's LITE Lab

Purpose of the LITE Lab

The LITE Lab serves as a dedicated space to integrate advanced instructional technologies for education majors.

Enhancing Teaching and Learning

The lab enhances teaching methods and learning experiences for pre-service educators through innovative tools.





Mission Statement and Vision for Innovative Teaching

Innovative Teaching Methods

LITE Lab focuses on developing teaching methods that integrate technology to enhance learning experiences.

Inspiring Creativity

The mission encourages creativity among future educators to foster original ideas and solutions.

Promoting Collaboration and Critical Thinking

Encouraging collaboration and critical thinking skills prepares educators for dynamic teaching environments.

Commitment to Transformative Learning Environments



Innovative Learning Spaces

The Lab has innovative learning spaces that integrate technology to enhance student engagement and participation.



Transforming Traditional Pedagogy

Technology-driven methods are used to transform traditional teaching into dynamic, student-centered learning experiences.



Preparation for Diverse Settings

Students gain skills to thrive in diverse and ever-changing educational and professional environments.

Hands-On Experiences with Modern Instructional Technology

Direct Student Interaction

Students engage hands-on with the latest educational technology tools enhancing practical learning experiences.

Skill Development

Hands-on technology use helps students build practical skills essential for modern teaching environments.

Confidence Building

Practical experience boosts student confidence in integrating technology into future classrooms.



Student-Centered Activities that Foster Creativity

Encouraging Creativity

Activities are designed to inspire students to think creatively and generate innovative ideas.

Technology Experimentation

Students get opportunities to experiment with various technologies to enhance learning.

Engaging Learning Experiences

Hands-on activities engage students in designing and exploring new concepts actively.





Workshops and Training Sessions for Pre-Service Educators

Technical Skills Development

Workshops focus on enhancing educators' technical abilities for effective use of educational technology tools.

Pedagogical Strategies

Training sessions emphasize innovative teaching methods to integrate technology into classroom instruction.

Teaching About the Importance of Assistive Tech

Supporting Diverse Learners

Assistive technologies help accommodate various learning needs, promoting inclusivity for all students.

Ensuring Educational Equity

Assistive tech ensures equal access to learning resources, fostering fairness in education.





Demonstrations of Assistive Tools in the Classroom

Hands-On Learning

Students gain practical experience using assistive tools through interactive demonstrations.

Variety of Assistive Devices

Various devices and software cater to different accessibility needs of students.

Enhancing Accessibility

Use of assistive tools promotes inclusivity and accessibility in educational settings.

Today's Agenda

- Introduction to Kebbi Robot by Movia
- Target Users and Educational Contexts
- Setup and Implementation Process
- Practical Use and Engagement Strategies
- Tips for Startup and Best Practices

Overview of Kebbi Robot and Movia Robotics

Features

Kebbi is an Educational Robot that integrates artificial intelligence, software, and hardware technology to provide a variety of facial expressions, body movements, and communicative interactions.

Educational Engagement

The robot motivates young learners by combining robotics with accessible and interactive learning tools.

Movia Robotics Innovation

Kebbi provides a unique set of interactive capabilities that work wonderfully in the home or school environment, providing users with a heartwarming and educational experience.





Key Features and Capabilities

Customizable Programming

Kebbi provides customizable programming options that adapt to individual user needs and preferences.

Educational Engagement

Supports various interaction methods to accommodate diverse user abilities and enhance accessibility.

Skill Development Support

Designed to enhance communication, problem-solving, and motor coordination skills effectively.

Intended Audiences

Target Audience

Kebbi focuses on young learners with physical, communication, and cognitive special needs to ensure inclusivity.

Accessible Learning

The platform aims to provide engaging and accessible learning opportunities tailored to diverse abilities.

Types of Challenges Addressed



Communication Barriers

Kebbi supports overcoming communication barriers to enable clearer and more effective interactions.

Fine Motor Skill Development

It aids in developing fine motor skills through targeted educational and therapeutic exercises.

Social Interaction Enhancement

Kebbi facilitates social interaction to improve collaboration and social skills.

Cognitive Engagement

It promotes cognitive engagement, fostering mental stimulation and learning.

Social Emotional skills

They can form a peer-to-peer relationship with children, *teaching them important Social Emotional skills* without the unpredictability that comes with a human being.

Supporting Inclusive Classrooms and Therapy Environments

Promoting Accessibility

Kebbi fosters accessibility to ensure all learners can engage fully in educational and therapy settings.

Encouraging Adaptability

Adaptability in learning environments allows personalized support for learners with varied abilities.



Hardware and Software Setup

What comes from Movia

- Kebbi Robot
- Laptop with Teacher's Aid Software
- Android Tablet with Student Software
- Charging cables for all components

Setup

Kebbi must be connected to a stable Wi-Fi Connection and will communicate with the laptop and tablet via Bluetooth

IP Address

When connection the Laptop, you will need to enter the IP address on Kebbi's Face and access the WOZ app

Teacher's Aide – What drives Kebbi's interactions



The Teacher's Aides software provides a preprogrammed curriculum designed to maximize success in the classroom for children with special needs. Additionally, customization tools allow teachers to add lessons.

Lesson Planner

Where customized lesson are created

Lesson Launcher

Where lesson are implemented

Lesson Tracker

Where lesson data is recorded

Monitoring Progress and Adjusting Activities



Tracking Learner Responses

Use feedback mechanisms to monitor how learners respond to activities and identify areas for improvement.

Dynamic Activity Adjustment in Real Time

Adjust learning activities dynamically based on feedback to maintain an optimal level of challenge for learners.

Supporting Ongoing Development

Continuous monitoring and adjustment help support learners' development and keep them engaged.