



dxdt Engineering and Research, LLC has developed a brand new system for training the Physically Disabled to master their assistive devices, their occupational therapy and mobility skills. The Farmer Noah process is based on a game-like activity that reinforces key physical and cognitive skill sets.

How does it work?

In the children's version of this system, eight (or fewer) electronic "farm animals" are positioned within a room or any indoor or outdoor environment. The animals can be hidden behind doors, in cabinets or up or down stairs if appropriate for the trainee.

There are four different types of farm animals. The trainee is challenged to find, access and match the pairs of animals.

When one animal is found, and tapped or moved, it makes the sound of the animal it represents. The system registers the animal.

If the next animal the trainee finds is the same kind of animal, those animals have been paired and are taken out of play (they are put on the ark). If the second animal does not match, it remains in play until it is successfully paired.

The process is repeated until all of the animals have been paired and placed on the ark. The system records the time required to locate all of the pairs of animals.

This simple activity provides a stress-free context for developing valuable OT and mobility skills

The system provides an enjoyable and stress-free way to develop, practice and master OT, mobility, dexterity, cognitive and behavioral skills. Specifically, these skills are:

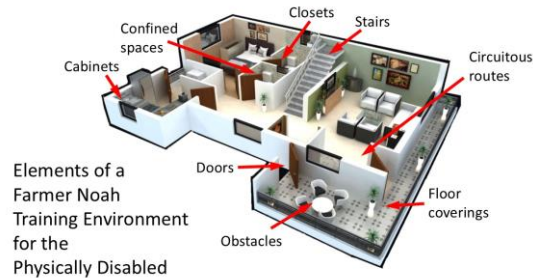
- Effective use of Assistive Devices;
- Dexterity skills;
- Effective use of mobility devices;
- Problem solving and other cognitive skills;
- Patience and other positive behaviors
- Physical Coordination

The skills developed in arbitrary Farmer Noah training environments are self-reinforcing and transportable to any environment. Together, the skills will lead to a more confident and capable individual

The enjoyable process can be expected to contribute to improved OT and/or mobility program retention.



With Bandmaster Stevie Trainees match musical instruments instead of animals.



Depiction of a home environment that includes OT and Mobility challenges that can be used as a basis for training using the Farmer Noah system

What is different about the Farmer Noah concept?

The physically disabled, especially children, can experience fear, intimidation, or embarrassment when moving about their environment. It can be difficult for them to get past those negative feelings when they are otherwise being coached on how to improve their mobility and occupational therapy skills. Farmer Noah helps them get past those feelings so they can focus on their training. The Farmer Noah concept helps trainees associate their training with something fun and positive.

Farmer Noah is 100% original and has been issued US patent number 12,274,664 B1

Farmer Noah Available Now

System attributes include:

- iPad and iPhone support (not included with system)
- Compact, nestable units that are easy to transport.
- Rechargeable with x8 charger and cables included,
- Fully operable by the Blind
- Includes adult version "Bandmaster Stevie"
- Automatic data collection and retention
- Versatile system carrying concept
- Upgradeable to include haptic features



The Farmer Noah System



Tablet Screenshot

If your organization is interested in implementing this new technology on behalf of your OT and mobility trainees, please contact us to discuss how we can work together.

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Dr. Christopher Hekimian, the Principal Scientist for dxd Engineering and Research, LLC has developed several technologies to assist and enable the visually impaired. These systems are:

- The world's first computerized and most highly-functional Amsler grid;
- The Optical Occluder System for training for vision degradation; and;
- The Farmer Noah system for enhanced mobility training.

Dr. Hekimian has patented 2 dental health related products and has developed a system for stimulating coma and cognitively impaired individuals and a system for monitoring trends in cognitive ability.

Dr. Hekimian and his wife Christine fund independent research into treatments for genetic retinal pathologies at the Wilmer Eye Institute. Through the Joseph Albert Hekimian Research Fellowship Program..

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The Joseph Albert Hekimian
Research Fellowship Program