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# **Exploring Seating and Mobility Provision**

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# **Exploring Seating and Mobility Provision**

Amaris Hornbuckle OTD/S

Expert & Faculty Mentor: Dr. Teresa Plummer, PhD, OTR/L, CAPS, CEAS, ATP Site Supervisors: Andy Foster, OTR, ATP, CRTS; Sandy Foster, PT, DPT, ATP





#### Numotion

**Mission:** Improving the lives of people with disabilities by enabling them to actively participate in everyday life. **Vision:** Be the primary source for all mobility, independence, and lifeenhancing solutions; lead the industry in innovation so all people with disabilities may thrive with personalized products and services.

#### TriStar Skyline Medical Center

Mission: Above all else, TriStar Skyline is committed to the care and improvement of human life. We strive to deliver high quality, cost-effective healthcare in the communities we serve.

## Identified Needs of the Agencies

#### Numotion:

Current identification method of available loaners is time consuming

#### Tristar Skyline:

Limited awareness of potential clients and TriStar Staff of the presence of a wheelchair clinic





Left: Mat Assessment, Right: Numotion Loaner Wheelchairs.

Capstone Goals	Outcomes
Develop resources related to seating and mobility provision and education	<ul> <li>Created loaner tracking spreadsheet for Numotion</li> <li>Designed promotional materials for the Seating and Mobility Clinic at Tristar Skyline</li> <li>Reformatted Houston Methodist form for easier collaborative academic use</li> <li>Created reference cards of the protocol for Explorer Mini FDA Testing</li> </ul>
Expand knowledge of wheelchair service provision	<ul> <li>Observed 185 hours of seating and mobility evaluations of a variety of ages and diagnoses</li> <li>Completed WHO Wheelchair Service Training Package Basic Certification</li> <li>Completed Academy of Neurologic Physical Therapy Wheelchair Course</li> <li>Achieved entry-level competency in mat assessments</li> </ul>
Collaborate with OT, PT, and other professionals related to seating and mobility provision and education	<ul> <li>Conducted a literature search for the Position Paper on Pediatric Power Mobility</li> <li>Participated in the planning and execution of an interprofessional event with 100+ Belmont University interior design, OT, and PT students</li> <li>Served as a liaison between 50+ Belmont University OT students and Vanderbilt biomedical engineering students for the fabrication of 4 modified ride-on toys for Go Baby Go</li> </ul>
Develop awareness of the lived experience of end-users	<ul> <li>Consumed a variety of multimedia created by end-users</li> <li>Spent a day navigating playgrounds in a wheelchair</li> <li>Talked with a variety of end-users &amp; caregivers at evaluations</li> <li>Wrote 3 personal reflections throughout capstone</li> </ul>

## Acknowledgements:

would like to extend my gratitude to the following individuals:

- Andy Foster and Sandy Foster for their openness and willingness to share their expertise.
- Dr. Plummer for her guidance, support, and knowledge throughout my capstone.
- All the clients, therapists, and ATPs that allowed me to observe and participate in their evaluations.
- Everyone at Numotion for their kindness and assistance.

#### Deliverables

Protocol Flashcards for Explorer Mini FDA Testing





Promotional Materials for TriStar Skyline

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Numotion Wheelchair Loaner Tracking Spreadsheet