Overview
Susquehanna Health Skilled Nursing and Rehabilitation Center is a 138-bed facility that provides patients with short-term and long-term care in Muncy, PA. The goal of the project was to develop an inventory management system that would successfully list, track, and monitor maintenance of pressure surfaces within the facility. To accurately compile the pressure surfaces, a tagging system was also developed. Finally, a financial analysis compared the differences regarding purchasing compared to renting.

Objectives
- Design a computerized inventory management system for mattresses
- Design and provide implementation instructions for a mattress tracking system
- Perform an analysis on renting as compared to buying specialty mattresses.

Approach
- A site visit was conducted to gain a deeper understanding of the facility’s challenges
- User specifications were obtained from the Susquehanna Health employees
- Base VBA application and tagging system were created and modified to primary user needs
- A Gantt chart was utilized to track progress and monitor deadlines
- Cost analysis was conducted to examine rent vs. buy for the company.

Outcomes
VBA Mattress Inventory Program
- Program allows all user functions including addition or deletion of inventory, location input, and tracking of days since cleaning and maintenance
- Alerts embedded in the system to notify users of past due maintenance

Physical Mattress Tagging System
- Mattress tags attached underneath the mattress to prevent skin injuries
- Tags sealed in waterproof protectors and attached using Velcro strips for durability

Rent or Buy Decision
- Buying showed financially preferable unless expected length of use is very short term
- Can save over $34,000 over five years for most commonly rented mattress types