IHEARTISE

Rest Assured:

Improvements in the Product Evaluation Lab for Wearable Cardioverter Defibrillators

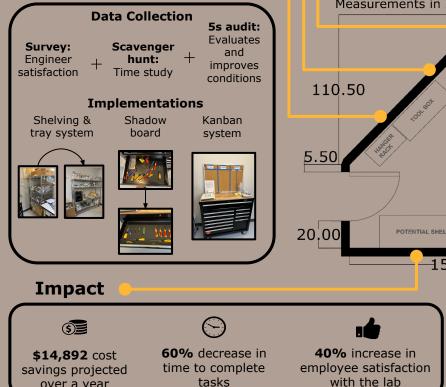
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Client Overview

Company: Kestra Medical Technologies Product: The ASSURE system, a Wearable Cardioverter Defibrillator **Purpose:** To protect patients at high risk of Sudden Cardiovascular Death (SCD)

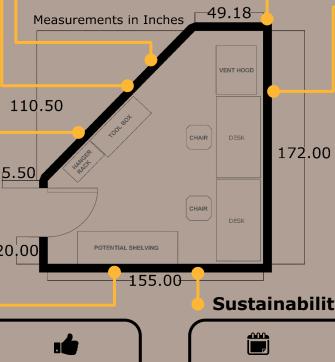
Methods

over a year



Problem Statement

The current product evaluation lab (PEL) was in need of restructuringthere was a lack of organization for the products and tools and no standardization of processes once product investigations were started.



Primary Assumptions

- PEL has enough space for all 1. projects
- 2. All engineers know how to do their investigations
- 3. The engineers are willing to adapt to the changes

Analysis

Survey

Engineers' opinions of lab were more positive in the survey after implementations compared to the original one.

Scavenger hunt

The second iteration of the scavenger hunt (post-implementations) showed a 60% decrease in overall time.

5s audit

Initial outcome of the 5s audit was 82/145. After the changes it was 103/145.

Simio model

This simulation was used to find the point the system would reach capacity.



Sustainability



Special thanks to our project sponsor, Bob Buchanan, the supporting engineers, Dan Piha and Quan Nguyen, and our professor, Patty Buchanan