**Project Overview**

TE Connectivity’s AMT (Automated Manufacturing Technology) team, located in Harrisburg, PA, is responsible for designing and building custom machines. They require a more efficient inventory management system for all of their concurrent projects. This project touches both project management and operations.

**Project Management**
- Provide clear visibility of part inventory
- Track part status on the machine and subassembly levels
- Quantify part storage performance

**Operations**
- Easily know when kits are complete and ready for build
- Easily identify subassembly and machine for a part through data entry

**Problem Statement**

**How can we increase visibility of part inventory?**

**Initial Problem:**
- Incomplete data transfers
- Unorganized part staging and storage
- No part visualization

**Our Focus:**
- Inventory Visualization - visualization at machine and subassembly levels using software
- Standard Processes - improve part reception and storage
- Project Integration - aid the integration of software at the build stations

**Constraints**
- Remote work + limited network access
- COVID-19 restrictions
- 6-month timeline
- Limited budget
- Limitations to Power BI
- TE’s technical literacy

**Assumptions**
- Recepitve to new technology
- Correctly set up + operate dashboard
- Power BI + Access compatibility
- Information is accurate

**Performance Criteria**
- Reduce manual task time
- Improve inventory visualization + accuracy
- Design user-friendly tool for management + floor personnel
- Cost effective

**Updating Part Status**
- Fab parts list: SAP -> Excel
- Manually enter missing fields
- Modify file using R -> Access

**Initial Part Storage Process**

**Improved Part Storage Process**

**Future Realistic**

**Future Perfect**

**Tools For Achievement**

**User and Set-Up Guides**
- Created Set-Up Guide to assist users with set-up + User Guide to familiarize end-users with dashboard features

**Evaluation Surveys**
- Asked machine builders to rate 1 - 10:
  - Difficulty of finding all parts for subassembly production
  - Time to gather all parts for subassembly production
  - How well the storage area is organized
  - Stress level when seeing the storage area

**Tracking Slips**
- Method of measuring performance of part storage process before + after implementation of dashboard

**Recommendations**

**Impact**

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