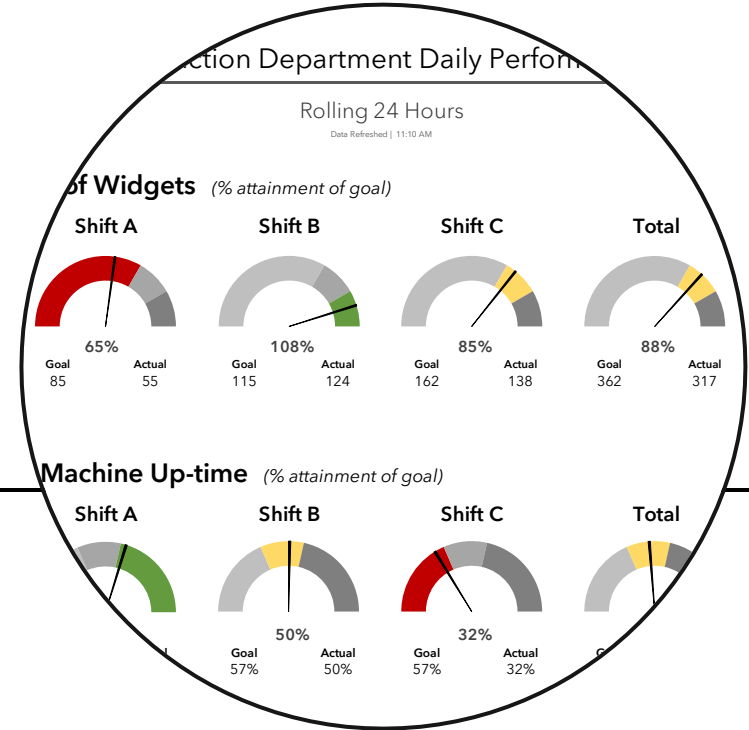


AUTOMATED POWERPOINT GENERATION





BACKGROUND & REQUIREMENTS

Background

The client's production data collection and daily review process relied on time-intensive manual tasks like drawing charts by hand, submitting individual handwritten production data, performing data calculations manually, and updating PowerPoint charts manually.

The process was prone to errors, didn't include information about issues or actions, and required significant time and effort from employees three times a day.

Requirements

Develop an automated system that improves efficiency and accuracy by streamlining the entire process from data collection and metric calculation to electronic display and communication of issues, actions, and production status.



THE BLUEPRINT

Create a fully automated process that will:

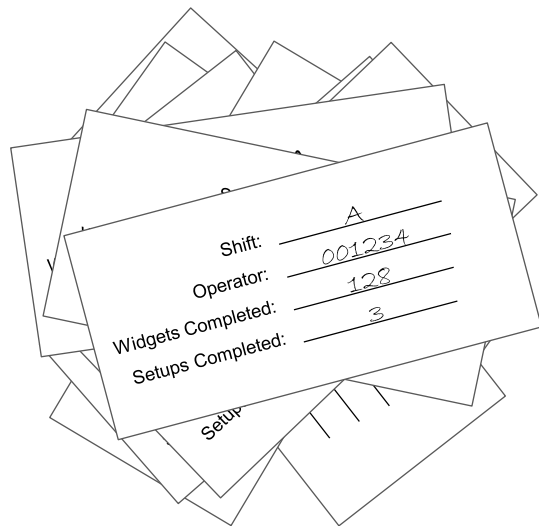
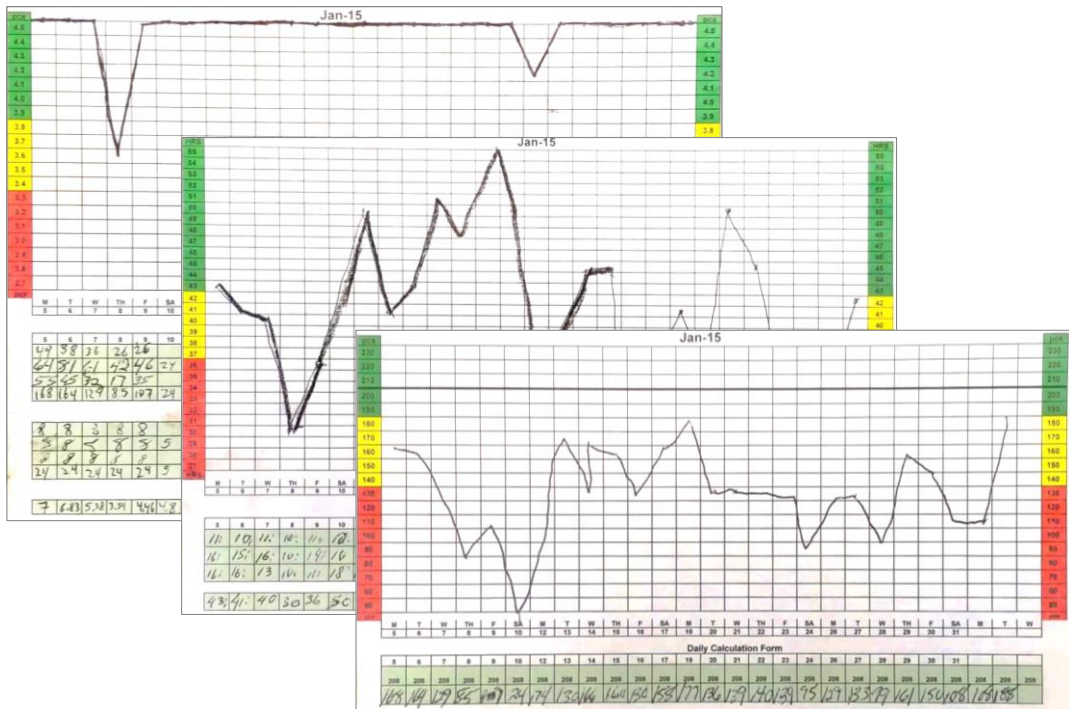
- ✓ Provide multiple points of data collection capability throughout the facility
- ✓ Collect data and calculate multiple KPIs without calculation errors
- ✓ Generate multiple PowerPoint files displayed on digital kiosks throughout the facility

Skills & Expertise Utilized

- Automation with Excel VBA
- Data Collection
- Data Analysis and Visualization
- Automated PowerPoint Generation
- Custom Tab in Excel Ribbon
- Automated Kiosk Updates



ORIGINAL DESIGN





FINAL DELIVERABLE

File

Alteon Solutions

New Entry

Settings

Refresh Data

Clear Sheet

Save Sheet

Production Expectations

Daily Production Data

Employee	Machine	Widgets Completed	Run Time	Setups Completed	Setup Time	Issues / Comments
001234	Machine 1	53	7:22	1	0:15	No issues, order ran smoothly
005678	Machine 3	28	5:00	3	1:48	Small order sizes and multiple setups
123400	Machine 8	40	6:15	1	0:30	No issues but machine is low on oil
567800	Machine 5	22	3:08	2	0:55	Quality issues on 1st order - Machine needs recalibration



DETAIL SPOTLIGHT

Custom Excel Interface

Alteon Solutions

New Entry Settings Refresh Data Clear Sheet Save Sheet

Production Expectations

Daily Production Data

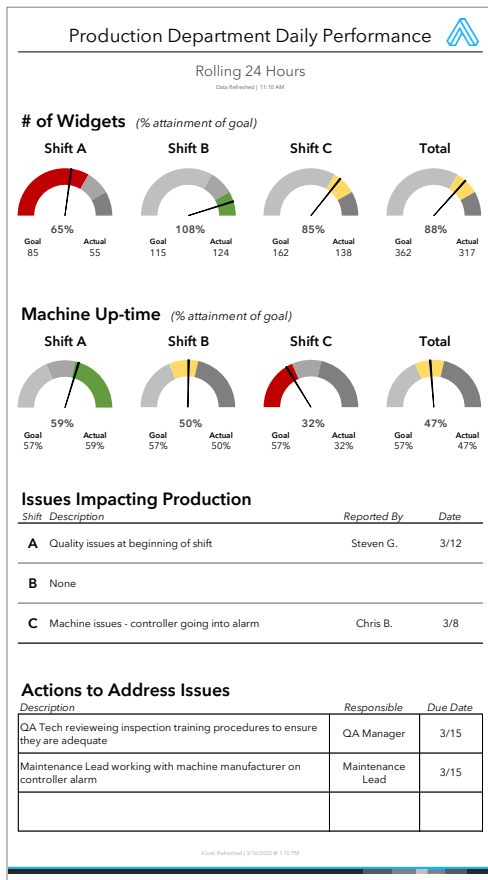
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Client Branding

Clean & Simple Data Entry



FINAL DELIVERABLE





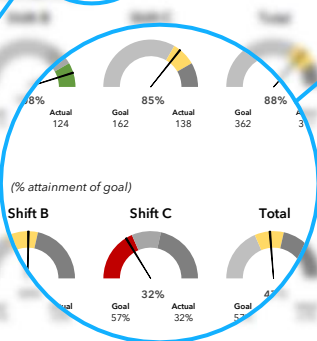
DETAIL SPOTLIGHT

Automatic Hourly Updates

Department Daily

Rolling 24 Hours

Data Refreshed | 11:10 AM



Color Coded Metrics

Issues Impacting Production

- A Quality issues at beginning of shift
- B None
- C Machine issues - controller going into alarm

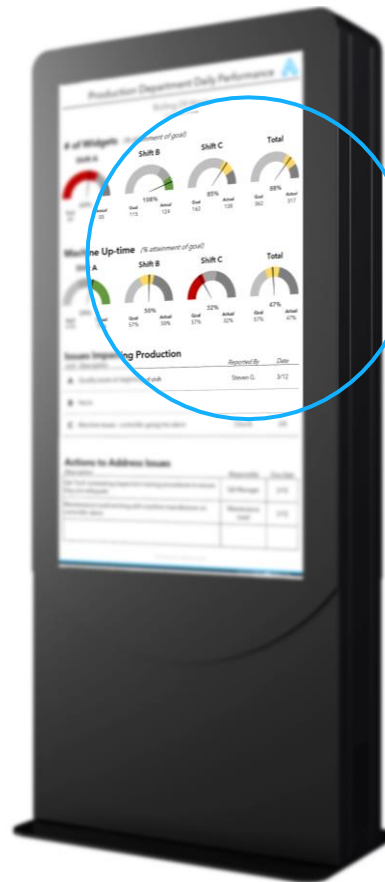
Actions to Address Issues

Description

- QA Tech reviewing inspection training procedures to ensure they are adequate
- Maintenance Lead working with machine manufacturer on controller alarm

Communication of Issues & Actions

Automatically Updated Wireless Kiosks



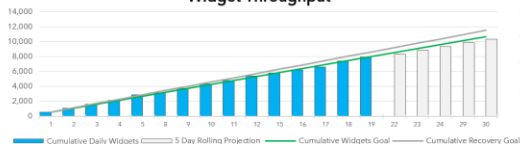


FINAL DELIVERABLE

Manufacturing Production Data Board



Widget Throughput



Shipment and Value Add \$



Machine Up Time & Widget Production

Shift	Up Time	Expected Widgets	Actual Widgets	Comments
A	82%	340	322	Overall good shift with very few issues
B	56%	242	188	Ran into machine issues - maintenance is addressing
C	58%	158	109	Very few issues but lower up time due to staffing
Total	65%	740	619	

Current Priority Orders

MM #	Description	Qty	Order #	Current Operation	Next Operation
1134235	Widget A Rev. 4	500	919740240	Casting	Machining
2113789	Widget C Rev. 0	120	919740241	Machining	Assembly
1134235	Widget D Rev. 2	300	919740554	Casting	Machining
2113789	Widget E Rev. 1	150	9197344211	Machining	Assembly

Actions to Address Issues

		Responsible	Due Date
1	Working with Engineering to determine the acceptable limits on dimensions for order 919740240	Group Lead	Today
2	Contact machine manufacturer to determine limits of the controller to determine where machine issues are occurring	Maintenance Lead	On-Going
3			
4			
5			



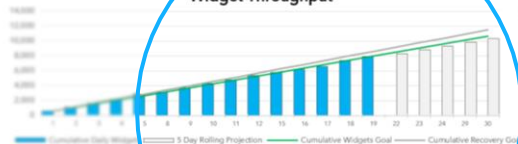


DETAIL SPOTLIGHT

Monthly Metric Overview

Manufacturing Production Data Board

Widget Throughput



Shipment and Value Add \$



Machine Up Time & Widget Production

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2 Contact machine manufacturer to determine limits of the controller to determine where machine issues are occurring	Maintenance Lead	On-Going
3		
4		

Communication of Issues & Actions

Current Status of Priority Orders

Automatically Updated Wireless Kiosks





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