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Background Information

AUMOVIO is a manufacturing company for vehicle sensors that requires automation for product handling due to electro-static discharge more frequently damaging products when handled by human workers.

Problem Statement

AUMOVIO's reactive robot maintenance leads to frequent downtime, delays, and high costs.

Purpose

Develop a robotics health dashboard to centralize real-time data, enable predictive maintenance, and reduce downtime.

Objectives

Data integration, real-time monitoring, fault detection, intuitive interface design, robust analytics & reporting.

RESULTS

Data Understanding

Column Name	Data Type
Ticket_ID	Number
Location	Letters & Numbers
Created_Date	DD-MMM-YY HH.MM.SS AM/PM TZ
Closed_Date	DD-MMM-YY HH.MM.SS AM/PM TZ
Subject	Open ended Text
Ticket_Content	Open ended Text

Pre-Dashboard: Jan24 – Sep25

Average: 10.76 hrs | Range: 3.52 hrs

Post-Dashboard: Oct25 – Jan26

Average: 8.78 hrs | Range: 2.45 hrs

Historical Patterns



Downtime Reduction

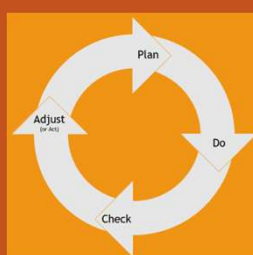


Team Members



Dylan | Gilberto | Jimena

Design and Human Factors



Visual Sensory

| Color codes | Font size and type | Clutter

Auditory System

| Alerts sent to user's laptops and cells |

Vestibular System

| Alerts stand out | Smooth transitions |

Tactile System

| Spacing and sizing | Sensitivity |

