Alpha Presentation
3D Model for Factory Digital Twin

The Capstone Experience

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Project Overview

• Visual model of factory
• Display real-time updates of sensors
• Quickly view factory and find issues effectively with visual changes
• Create generalized solution to allow for expansion/scaling
System Architecture

[Diagram showing system architecture with components such as real-time data, broker, server, front end, and client.]
Example Factory Floor Loaded
Object Highlighting & Info
MQTT Manual Tool to Simulate Data
Live Data & Alerting
What’s left to do?

• UI Values Change with Live Updates
• Serialization / Saving & Loading
• Concurrency & Asset Loading
• A lot of Quality Assurance Testing
Questions?