

INDUSTRIAL PARTS WASHERS: REMOTE MONITORING

Katie Woltkamp
Mitch Conrad
Neh Batwara
Nick Coduto
Bryan Adams

Dec1607
Mani Mina

CLIENT OVERVIEW

History

Industrial Parts Washers

Standard and Custom Systems

Variety of Customers

- John Deere
- Catipillar
- Honeywell



PROJECT REQUIREMENTS

Remote Monitoring: Variety of Systems

Access to real time data: No need for data storage

Develop a user interface that would be usable for many groups

Vendor recommendations and cost estimates for a preferred system

DISCOVERY PROCESS

From Customer

Current Platforms in Use

Complexity of Programs

Data Storage

Intranet Access

Our Research

Background PLC Knowledge

Different platforms available

Familiarity with current systems in use



CHALLENGES

Variety of Companies and Systems

Company Location

Cost of Components

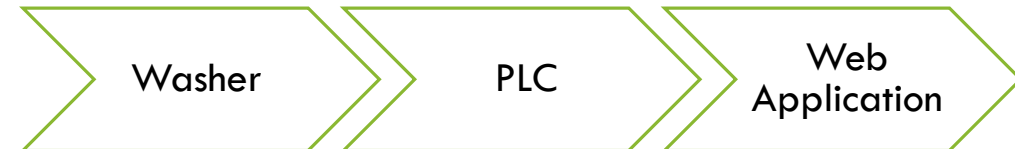
Limited Prior Knowledge of Subject

PROJECT PLAN

Web Space for Remote Access

Three Different Plans

- Siemens: Logo! 8
- Allen-Bradley Micrologix 1400
- Siemens: s7-1200



SIEMENS: LOGO! 8

Simple Set Up – User Friendly

Low Cost

Integrated Web Server

Ethernet Connection

Remote Monitoring via Cellular Network



ALLEN-BRADLEY: MICROLOGIX 1400

Already Implemented

Third-Party Required

Familiarity



SIEMENS: S7-1200

Comparable to Micrologix

Fail Safe

Remote Monitoring

Cost Benefits



CURRENT PROGRESS

Goals Obtained

Three Approaches

Vendor Recommendations

Cost Estimates

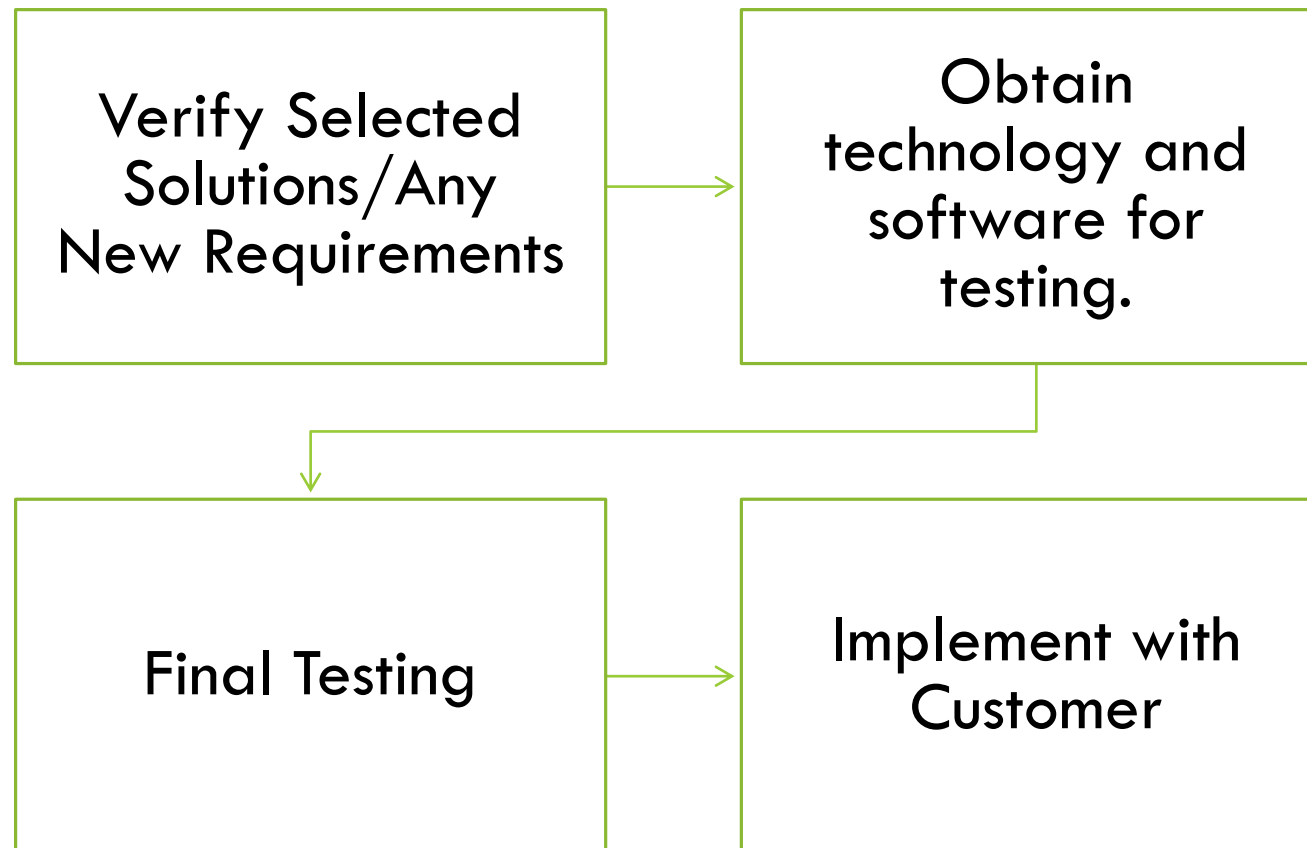
Goals to Meet

Product Testing on Current Systems

Implementation

Final Product Testing

SECOND SEMESTER





QUESTIONS