

An investigation in to the use of software to manage machine fault data in the UK manufacturing industry for Ecolab

BSc (Hons) Computing and Information Systems Major Project by Jacob Sims | 218015

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The problem

Ecolab's current method of capturing and analysing machine fault/failure data is subject to human error, bringing the validity and integrity of the deduced information, to question.

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Aims/Objectives

Aim:- To facilitate and improve the method of monitoring and managing machine fault/failure data for Ecolab.

Objectives:

- Conduct a review that looks in to both current and potential fault/failure monitoring tools.
- Develop a system that automates the processes involved in capturing and analysing machine fault/failure data at Ecolab.

3

The findings

- Manufacturing industry is reliant on automation to negate human error
- Various machine fault management tools
- Potential machine fault management tools, methods & technologies

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Testing

Testing was done initially to ensure the functionality of the system was working. User acceptance testing was also conducted to ensure the end-user found the system useful.

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Conclusion/Results

Based on the research conducted in the literature review, the solution to Ecolab's problem would be to implement a software solution.

The software solution allowed the users to:

- Visualise data
- Input data
- Query the data

All of which negated the chance of human error occurring by automating all the processes involved in monitoring and managing the fault data.

