

Delta Fluid Products Ltd Knowledge Transfer Partnership



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plan 📍

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DELTA FLUID PRODUCTS LTD

SPERRYN
GAS CONTROLS

RHODES

Wade

brownall®

NABIC®



Client:

Delta Fluid Products Ltd

School:

Engineering

Staff:

Gareth Black
(Knowledge Transfer Associate)
Dr Dave Allanson
Dr Steve Douglas

Project:

This collaborative project is a thirty month Knowledge Transfer Partnership (KTP)

Currently in its final phase, it is devoted to improving the company's design processes by abstracting the design of pressure reducing valves into a set of inter-related functions. This opens the opportunity to optimise the design and minimise manufacturing costs.



Gareth Black, Dr Steve Douglas, Brian Travis (from Delta Fluid Products Ltd) and Dr Dave Allanson



This new design strategy makes full use of open source software including Scicos, Open Office and GANTT Project as well as Computer-Aided design. It has demonstrated to the company that functional simulation can significantly reduce the need for prototypes in the design process and has improved product quality.

The work carried out in the project has been recognised nationally with the announcement that the programme associate, Gareth Black won the DTI 'Business Leader of Tomorrow' award.

Client benefits:

- Reduced time to manufacture
- Reduced production costs
- Clearly defined product design and validation methodology
- Lower product cost through improved quality

Associate benefits

- National recognition for his work through the DTI 'Business Leader of Tomorrow' award

- Enhanced professional standing
- Invaluable experience of business management

Academic benefits

- The opportunity to collaborate on a demanding design problem using state-of-the-art systems in a commercial environment
- Master of Science projects
- Conference and journal academic papers
- An understanding of open source software movement