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Professional Profile of: Dr Samuel Paul

Academic

Doctor of Philosophy (**DPhil**) in Advanced Metal Forming from University of Ulster 1997

Bachelor of Engineering (**BEng**) First Class Honours in Mechanical Engineering from University of Ulster 1994

National Diploma in Engineering from Coleraine Technical College 1992



Relevant CPD Courses

IOSH Managing Safely

NEBOSH Certificate

Professional Memberships

Associate member of Institute of Mechanical Engineers since 1993

Career

2006 – Present Self Employed trading as Solve Engineering

- Mechanical Engineering Design Consultant

2000 – 2007 Engineering and Maintenance Manager at Dairy Produce Packers Coleraine

- Site Engineering Manager – Maintenance, Capex Projects, Environmental and energy
- Site Maintenance Manager – Production and Site Maintenance – 16 fitters/electricians.

1997 – 2000 Assistant Group Project Engineer at Dromona Quality Foods NI

- Project Engineer. Plant Design and Project Management.



Example Project Experience

Medical Client 2010 & 2015

Mechanical Consultant. Responsible for development of mechanical design for a machine to automate the production of heart stent balloon catheters. Full mechanical design to meet client's URS, production of all detail drawings, project management of sub-contractors, supervising mechanical build and commissioning and FAT assistance.

Dairy Process Client 2010

Mechanical Consultant. Responsible for process pipe-work and whey handling associated with installation of new Alfomatic cheddar cheese manufacturing plant. Full process design including product routing, CIP, sizing and specifying process components including pumps, valves, pipes etc. Producing P&ID, all tender specifications, negotiating with sub-contractors and periodic site supervision during installation. Supervision of plant commissioning.

Dairy Process Client 2014

Mechanical Consultant. Responsible for process pipe-work associated with installation of new Bulk Palm Oil Handling and distribution facility for a processed food plant. Full process design including product routing, CIP, sizing and specifying process components including pumps, valves, pipes etc. Producing P&ID, all tender specifications, negotiating with sub-contractors and periodic site supervision during installation. Supervision of plant commissioning. Plant included automatic dosing of ingredients into blenders with batch weighing using load cells.

Dairy Process Client 2010

Mechanical Consultant. Responsible for design of a skid based yogurt flavour mixing plant. Full process design including product routing, CIP, sizing and specifying process components including pumps, valves, static mixers, pipes etc. Producing P&ID and full mechanical design drawings, all tender specifications, negotiating with sub-contractors and periodic site supervision during installation. Supervision of plant commissioning.

Agri Machinery Client 2016

Mechanical Consultant. Responsible for the design development of a new concept in slurry maceration and distribution for utilisation in dribble bar applicators. Full mechanical design and 3D CAD modelling. Production of all manufacturing drawings. Ongoing product development support.

E-Cigarette Client 2012-2017

Product development of emerging e-cigarette devices. Projects range from packaging concepts, leak reduction, improved atomisation, TPD2 compliance issues etc. Services provided include development of products using 3D CAD modelling, production, assembly and testing of prototype devices, evaluation of new technologies and IP generation and development of test equipment.



Example Client List:

Dale Farm Ltd

Kerry Food Ltd

Japanese Tobacco International Ltd

Michelin Tyre Cooperation

Sub-Contractor working projects for:

Caterpillar Ltd

Bombardier Ltd

Translink Ltd

Merit Medical/Capellea Ltd