



Gary Masson

Spotlight on Gary Masson

Gary Masson, Mechanical Design Engineer, joined the MPE Design team in early September 2019. Reporting to Paul Currie, Director and co-owner of the company, Gary is currently working on an update of MIL-STD-188-125 filters, as well as an original feedthrough varistor design based upon the two families of UK and European patents granted to MPE during 2019.

As discussed in MPE Company Bulletin Issue 17, the first family of patents relate to how this novel varistor system incorporates a thermally activated override. The new product not only dramatically increases switch-on speed by reducing circuit inductance, but also provides a safe and complete disconnection of the system from the circuit in the event of the varistor degrading.

The second family of patents relate to a varistor system that can be integrated into many types of power cord or plug. It enables retrofit or additional EMP protection to be added to virtually any device simply by changing the power plug or cord to that device.

Ever since its implementation, Gary Masson has been using MPE's new MakerBot Replicator Plus 3D printer to produce the concept models that he needs from the AutoCAD Inventor 3D CAD package to aid and support MPE's manufacturing and assembly processes downstream.

Alongside day-to-day 3D CAD activities required for new solution designs and orders, Gary's wealth of mechanical design experience is already being utilised to further improve MPE's existing solutions. Going forward, the aim is to draw on this experience, allowing alternative or new materials, mechanical components and processes to be explored, in order to enhance MPE's efficiency in building their high-performance, high-specification filters on a repeat basis.

As a Mechanical Design Engineer or Senior Technical Support Engineer with a wide spectrum of experience across six varied engineering companies, Gary is proud of numerous design achievements over his 35-year career.

He assisted in the design of the Heat Energy Resource Unit (HERU) that converts kitchen waste into synthesis gas (syngas) for generating heat and hot water for the home. He was in the small team which designed the first drive-through island ATM for the NCR Corporation. He designed a mixed gas regulator for soft drinks dispense for BOC Gases, as well as a bacteria-free Stuart brand hotplate for Cole-Parmer.

A resident of Sandbach, Cheshire, Gary is married to a hospital consultant, and they have two adult daughters. He gained his BSc in Mechanical Engineering at Dundee University, 1980-84.

Having previously been a player of the Cheshire Hornets Basketball Club in the highly competitive Manchester Area Basketball League, Gary has been Club Chairman for the past ten years. He is also a Grade 3 basketball referee across Greater Manchester. In addition Gary shares his wife's passion for cycling. Last August he joined her and two other family members in raising over £2000 for a prostate cancer charity by completing the 100-mile Ride London challenge around London and the Surrey hills.