

Total Electronic Control Co Ltd

Profile

Peter Booth has spent most of his working life in and around the lab environment with early years at Beecham Pharmaceuticals at Brockham Park in Surrey where I progressed to be head of Instrument Services with 2 electronics engineers, 2 mechanical engineers and a glassblower.

I started my limited company in 1996 and spent more than 20 years on the research sites in Hertfordshire for GSK, firstly when asked to calibrate HPLC analogue to digital converters but then taking on most of the calibration on temperature, pressure, metrology, flow and associated instrumentation used during there research work on inhalation drugs. All of my SOPs and associated work was to GLP and GMP criteria as Glaxo were striving to finalise the design of their next line of COPD drug delivery products while complying to FDA and MHRA criteria.

In 2020 I was approached by Imperial College London and asked if it was possible to manufacture a low cost Flow Cytometer for the separation of multicellular organisms. There are many flow cytometer companies working at single cell size but the high voltage methods they use are not viable for more delicate organisms.

My design took almost 5 years and is now in use at the Liverpool School of Tropical Medicine and is available for sale for lab research and mosquito production. It would also be possible to sort other RFP labelled organisms or with a laser colour change for GFP labelled organisms.