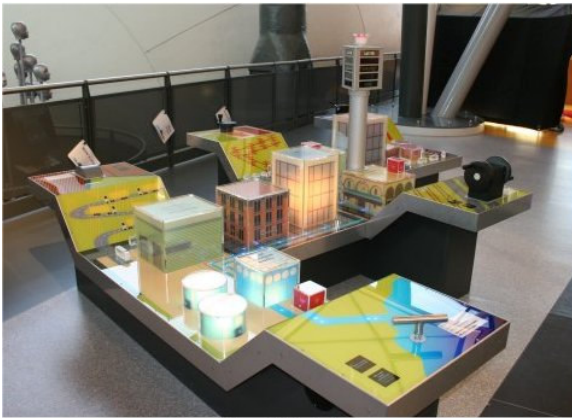


BRANTHAM ELECTRONICS

Electronics for 'Our World' exhibit Installed in The Centre for Life Exhibition, Newcastle



Our World

Darius Wilson of Darius Wilson Associates says of Paul Oliver, trading as Brantham Electronics:

"This hands-on interactive exhibit was designed to illustrate the processes and requirements that govern a city. Paul worked with us on the design, built the electronics and wrote the software. We have worked with Paul Oliver on many occasions and always found his work to be of a very high standard.

Paul has always had a great understanding of our often complex requirements and we have always felt his approach to the design, fabrication and post install

support is excellent. I wouldn't hesitate in recommending Brantham Electronics to other organisations."

The model shows the necessary movement of the essential services: Electricity, Water, Food, Transport and Waste. Each of these is represented in 5 or 6 stages and each stage is represented by lighting or chasing LEDs to show movement with appropriate audio. Each service is triggered by a visitor using a different method, i.e. by turning a handle or pushing and pulling a plunger. Whilst the trigger is being applied, each stage will play for 5 seconds before progressing to the next stage. When all stages have been completed a floor is lit in a central tower. If five visitors simultaneously complete all five services, then a light on top of the tower is illuminated as well.

When the visitor stops triggering a service the sequence will reverse. For example cranking a handle shows the clearance of waste sewage from the city and processes it to produce clean water. When the cranking stops the waste can be seen to build up in the city again.

The electronics is designed so that all sections use identical hardware and the software is modular so that common routines are shared between the various sections. Programming is held in flash memory so that it is easily updated on-site by connecting to a laptop computer.

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Contact:
Paul Oliver

Brantham Electronics, Unit 2B, The Gattinets, Hadleigh Road, East Bergholt, Colchester, Essex, CO7 6QT, England. Telephone: 01206 298951

Email: paul.oliver@branthamelectronics.co.uk,

Web: www.branthamelectronics.co.uk