

LCR4.0

Together for Manufacturing.



European Union
European Regional
Development Fund

Ultamation

Date: 23/05/2017

Technologies: Augmented Operator

Sector: Automation solutions

Primary partner:
Virtual Engineering Centre



Background

A multi-award winning company based within the Liverpool Science Park, Ultamation specialise in home automation solutions. These are used to manage the controls for your heating, lighting, energy, security and Audio Video, such as music playing throughout a number of rooms within your house.

Focusing on bespoke, high quality systems, some of their customers have been pretty extravagant including converting a garage into an awe-inspiring man-cave in the heart of Cheshire. Ultamation offer a complete service though initial concepts, design, installation to handover of the completed the project with the client. They base their success on being able to offer their customers something unique.

Approaching LCR 4.0

Ultamation are constantly looking into how they can improve their products and ways they can integrate new technologies. The concept of Augmented Reality (AR) sparked excitement in the team for some of the potential applications. They started exploring how to develop an AR-based control interface which could cover numerous applications including smart homes and commercial meeting spaces.

Partner Support

The Virtual Engineering Centre (VEC) worked with Ultamation to create an augmented reality app which can be used to control connected devices in a smart home setting. This AR interface will allow users to interact with multiple devices in the smart home by holding up a smart phone or tablet to face home appliances or simply interesting features. The application will recognise an appliance/feature (e.g. TV, chandelier or piece of artwork) and trigger the presentation of the suitable menu for the control of that device such as power options, volume and channel control and even the brightness levels making control even easier.

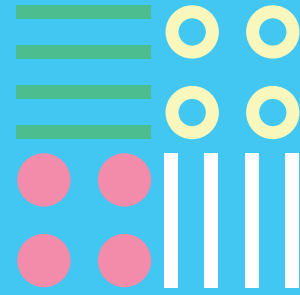
Working into the Future

Ultamation have since enhanced the application with further emerging technologies in the world of artificial intelligence.

Ultamation are very excited about the potential use for this AR technology, and will look at introducing it to projects where it is appropriate and to the clients' wishes. They are also looking into other applications within the commercial sector.



Oliver Hall, Managing Director of Ultamation, said *"We are delighted to have had the opportunity to work with VEC to develop this app. What started as a "would it be possible to ..." has turned into a piece of technology I can hold in my hand and control in a way previously only seen in science fiction films."*



Results

The VEC has assisted Ultamation to develop a proof of concept for an AR control interface for the smart home space. Ultamation is delighted with the work completed and has gone on to seek professional advice for the potential patent application of the AR control interface.

The prototype has been handed over to the Ultamation development team. The AR control interface prototype is a new product to the company which may be developed further in the future.

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