

# UK SME offering ‘vision control sensor’ solution for robotics seeks commercial agreement with technical assistance and joint venture partners.

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*Identificativo proposta:* TOUK20190830002 **RICHIEDI MAGGIORI INFORMAZIONI**

A UK R&D company specialised in an industrial electronics engineering has developed an innovative ‘vision control sensor’ solution for any robotics application. The VCS is a solution that can be used for incorporating state-of-the-art vision devices, control commercial of the shelf (COTS) actuators, interface a wide range of sensors and accelerate artificial intelligence algorithms. The company offers commercial agreement with technical assistance or a joint venture partnership.

This UK company was founded in 1989 with the focus on design, manufacturing, and testing of electronics modules based on a leading-edge multiprocessing technology that allowed infinite scaling of processing power in the following areas: 1. Vision system and sub-components for safety 2. Advanced sensor technology for monitoring 3. Robotics electronics for unmanned vehicles The newly released solution (VCS for “Vision, Control & Sensor”) has its origin in a H2020 ICT project, where the consortium successfully developed a low-power image processing (15Watts) platform. The platform uses the latest devices 64-bit processor scalability while combining real-time control with soft and hard engines for graphics, video, waveform, and packet processing (Zynq MPSoC FPGA) to provide computations and flexible input/output (I/O). • One of the unique features is the hardware accelerators that are integrated into the zynq device that enables deep learning and edge-AI, rather using ‘cloud’ based computation that typical takes 100’s of Watts and require high-speed broadband connections. • The VCS is a mature solution that can be used for incorporating state-of-the-art vision devices, control commercial of the shelf (COTS) actuators, interface a wide range of sensors and accelerate artificial intelligence algorithms • The technology is generic for any robotics application and during the H2020 Fast Track to Innovation programme (FTI - Project) they have developed and proven a precision robotics solution designed to better facilitate the collection of real-time data in vineyards from which improved grape maturation and harvesting strategies can be devised. The company is looking for: Research cooperation agreement. Commercial agreement with technical assistance • Partners for future R&D activities, where VCS could become a component in robotics system and the company could develop interfaces, controller and edge-AI under joint venture agreement. As well as for: • User customers for the range VCS that the company will introduce in the future; • Original equipment manufacturers (OEM) needing to develop a bespoke solution or an OEM that wish to obtain the IP of VCS to build own solution; • Robotics companies that wants to add an autonomous controller to their own robot; under commercial agreement with technical assistance.

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