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Control and  
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The Department of Automatic Control & Systems Engineering  
is pleased to announce the following seminar:

## **How Immersive Technology is helping me to mitigate the impact of the COVID-19 pandemic on my industrial-led research**

**Dr Hector Marin-Reyes**

Department of Automatic Control and Systems Engineering, The University of Sheffield

**Wednesday, 07 October 2020 at 14:00**

Via Google Meet

*Host Academic: Professor Visakan Kadiramanathan, ACSE*

### **Abstract**

COVID-19 has brought new challenges to universities worldwide, including the need to ensure continuity of ongoing research, ensure safety of academic staff and students, enforce social distancing measures, ensure continuing the education of undergraduates and postgraduate students and put a limit on nonessential and non-COVID-19 research activities. Regardless, researchers from the University of Sheffield have maintained critical research activities, continued to submit publications, balanced work and family responsibilities, initiated or collaborated on COVID-19-related research, engaged in remote research opportunities, maintained regular and frequent communication with peers, and continued to plan and write research grants. In this webinar, I will talk about how I have used Immersive Technology to cope with onsite laboratory restrictions and shutdowns in order to continue with my first research grant as principal investigator

### **Biography**

Dr Hector Marin-Reyes is a fellow of the Higher Education Academy (FHEA in the UK), a member of the Institution of Engineering and Technology (MIET in the UK) and the Institute of Electrical and Electronics Engineers (MIEEE in the USA), and a member of the National Research System (SIN-I in Mexico). In February 2020, Dr Marin-Reyes has joined the department of Automatic Control and System Engineering (ACSE) as the Principal Investigator of the Innovate UK project titled "Automated Blisk Repair for the Aerospace Turbine Industry", a £3 million project supported by the Aerospace Technology Institute (ATI) and the department for Business, Energy and Industrial Strategy (BEIS).

Dr Marin-Reyes graduated in 1999 from the National Polytechnic Institute (IPN in Mexico) where he obtained a BSc degree in Electronics and Communications Engineering. Dr Marin-Reyes obtained his MSc in Control Systems and his PhD in Automatic Control and Systems Engineering, both degrees in the department of ACSE. After a three-year engineering research position at Tecalia Research & Innovation in Spain, Dr Marin-Reyes became a Research Associate at the department of Physics and Astronomy. Since 2011, his industrial-led research has been focusing on developing multiple automation and robotic solutions for the aerospace and nuclear sectors within the Enabling Sciences for Intelligent Manufacturing (ESIM) group and in collaboration with small and medium-sized enterprises (SMEs), Catapult centres in the UK and the European Organization for Nuclear Research (CERN in Switzerland).

Dr Marin-Reyes' main research interests include: Robotics and Automatic Control systems, Additive Manufacturing applications in Industry 4.0 and Human-Robot-Interaction via Immersive Technologies.