PROJECT EXHIBITION 2023

Title	Virtual Telepresence Robot	
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ABSTRACT

Virtual reality, robotics, and Augmented reality can team up to develop innovative applications for various organizations. As the new rescue operations or challenges arrive in our day to day life, in search of solution to these type of problems will make us to create these type of applications. In this project a robot with a camera is placed in a remote location to capture the environment in visual form using Raspberry Pi (RPi). The captured visuals are displayed on the user's virtual reality (VR) headset. An added feature allows the camera to move in the direction of the user's head movements and also the visuals show the object detection and classification. This gives the user a real time experience, if user is present where the virtual tele-presence robot is located. The virtual telepresence robot can also be moved in any direction through an app installed in the user's smartphone. Integrating features of all the hardware components will give desired output.