VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Santhibastawad Road, Machhe

Belagavi - 590018, Karnataka, India

Project Report

ON

"Virtual Telepresence Robot"

Submitted in the partial fulfillment of the requirements for the award of the degree of

Bachelor Of Engineering
In
Computer Science and Engineering
Submitted by

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Mudasir Ahamed	**(1JS19CS091)**
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Under the Guidance of
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JSS Academy of Technical Education, Bengaluru
Department of Computer Science and Engineering

2022 – 2023

JSS ACADEMY OF TECHNICAL EDUCATION

JSS Campus, Dr.Vishnuvardhan Road, Bengaluru-560060

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that the project work entitled **VIRTUAL TELEPRESENCE ROBOT** has successfully carried out by **Mr. Kiran A (1JS19CS076), Mr. Mudasir Ahamed (1JS19CS091), Mr. Nikhil Raju (1JS19CS102), Mr. Prithviraj Patil (1JS19CS125)** in partial fulfilment for the award of the degree of Bachelor of Engineering in Computer Science and Engineering of the Visvesvaraya Technological University, Belagavi during the year 2023 It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Ms. K V Shanthala	**Dr. P B Mallikarjun**	**Dr. Bhimsen Soragon**
Assistant Professor	**Professor & Head**	**Principal**
Department of CSE	**Department of CSE**	**JSSATE, Bengaluru**
JSSATE, Bengaluru	**JSSATE, Bengaluru**	

External Viva

Name of the examiners	**Signature with Date**
1…….	**……**
2…….	**……**

ACKNOWLEDMENT

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ABSTRACT

Virtual reality, robotics, and Augmented reality can team up to develop innovative applications for various organizations. 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. This gives the user a real time experience a if he 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.

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