

NAAC 5th Cycle Accreditation

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7.1.7 The Institution has disabled-friendly, barrier free

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2	JAWS SCREEN READER
3	SOFTWARE DEVELOPED BY STUDENTS FOR DIVYANGJAN
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777 Accesses Metrics MAWS Professional Options: Utilities: Language Help J21-06557-y JAWS Version 2022 202 38 LM LOYOLA COLLEGE S ② ± SIC - SSR Report : ③ PL/SQL - Arrays - T ④ Advertisement Submit your manuscript Visit Nature news for the latest coverage and read Springer Nature's statement Springer Link Ceramics Open Access Published: 07 October 2021 Photonic response and temperature evolution of SiO ₂ /TiO ₂ multilayers George Christidis ♡ Olga B. Fabrichnaya, Stefan M. Koepfi, Erik Poloni, Joel Winiger, Yuriy M. Fedoryshyn, Andrey V. Gusarov, Mariia Ilatovskaia, Ivan Saenko, Galina Savinykh, Valery Shklover & Juerg Hereine Stefan M. Koepfi, Erik Poloni, Joel Winiger, Yuriy M. Fedoryshyn, Andrey V. Gusarov, Mariia Ilatovskaia, Ivan Saenko, Galina Savinykh, Valery Shklover & Juerg Hereine Stefan M. Koepfi, Erik Poloni, Joel Winiger, Stefan Savinykh, Valery Shklover & Juerg Hereine Stefan M. Koepfi, Erik Poloni, Joel Winiger, Stefan Savinykh, Valery Shklover & Juerg Hereine Stefan M. Koepfi, Erik Poloni, Joel Winiger, Stefan Savinykh, Valery Shklover & Juerg Hereine Stefan M. Koepfi, Erik Poloni, Joel Winiger, Stefan Savinykh, Valery Shklover & Juerg Hereine Stefan M.	Adstract Introduction Adstract Introduction Adstract
777 Accesses Metrics MAVIS Professional Options: Utilities: Language Help J21-06557-y JAVVS Version 2022 202 38 ILM UVICLA COLLEGE S ② :: SIC - SSR Report : ③ PL/SQL - Arrays - T ④ Advertisement Submit your monuscript Visit Nature news for the latest coverage and read Springer Nature's statement of Springer Link Ceramics Open Access Published: 07 October 2021 Photonic response and temperature evolution of SiO ₂ /TiO ₂ multilayers George Christidis ^{CD} , Olga B, Fabrichnaya, Stefan M, Koepfli, Erik Poloni, Joel Winiger, Yuriy M, Fedoryshyn, Andrey V, Gusarov, Mariia Ilatovskaia, Ivan Saenko, Galina Savinykh, Valery Shklover & Juerg Leuthold Internet of Meteriols' Science 55, 18440, 18452 (2021) Cite this esticle	ADSITACE Introduction
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Screen Shot of Jaws Screen Reader Software

DIVYANGJAN FRIENDLY EU

IOT Based Home Automation for Physically Challenged

The paper demonstrates to design a smart home system for physically disabled persons with the purpose of reduction of water and power consumption. The physically disabled persons require special assistance from caretakers or other persons to lead their normal life and even at home, it is not convenient for them to control the house apparatus system according to their wish. In this paper, a smart home automation system is implemented which consists of automatic control of lights to turn on in presence of human and turn off rest of the time as well as nodemu(esp8266) controlling ability along with automatic door lock and open system through web page also it controls by other person, automatic Water tap, automatic water tank fill-up and Solar charging system with the solar controller to reduce the power consumption. The project has been implemented using low-cost components and based on PIC platform with an aim to develop a system which will be effective to reduce water wastage in real time as well as the project will be able to reduce power consumption and utility bill by using renewable energy as the power source.



Voice and Gesture Controlled Wheel Chair

This Project presents a Voice and Gesture Controlled Wheelchair.

A Voice and Gesture Controlled Wheelchair makes it easy for physically disabled people who face difficulty in moving from one place to another in day today life. The powered wheelchair depends on motors for locomotion with the help of Gesture and Voice recognition given as the command. The Gesture movement is

recognized by accelerometer and with the use of android application and Bluetooth, the voice commands are transmitted to the processor and the information is being encoded in order to control the wheelchair in certain direction to which the user wishes to move.



Assistive Technology for Paralysed People

Brain Computer Interface (BCI) is field of research which has gained alot of attention in these days. The main aim of this paper is to provide basic mobility for the elderly and incapacitate. Humans can interact with machines is significantly enhanced through inclusion of speech, gestures, and eye movements. The objective of this project is to develop an intelligent brain and eye controlled communication system which can control home appliance for paralyzed people who

can't control ordinary system. People suffering from these conditions can use their brain waves to control prosthetic devices or exoskeletons. The proposed project uses brain waves in combination with eye blink sensor to significantly enhance the ability of people with a disabled system to interact with assistive machines. These signals can be read by using a sensor named electroencephalogram (EEG). According to the readings interpreted by the device, we have included the automation of the patient's room by controlling the essential electrical equipment's like lights, fans, etc. Also, a SMS will be sent to the respective caretakers. The most essential requirements of the patient can be satisfied without delay and this helps the caretaker to assist the patient regularly.



Image Processing Based Language Converter for Deaf and Dump People

Generally Sign language uses hand gestures for communication; it is used by the hearing and the speech impaired people to interact with others. But it is very difficult for the normal peopleto understand it, The gestures shown by the impaired people will be captured and the corresponding text and voice output is produced as one way and the voice input by normal people is taken and the corresponding text will be displayed to them as

another. This system uses RASPBERRY PI kit as the hardware, where a Speaker and Microphone will be attached along with it. First the image acquisition is carried where it captures the input image and then image pre-processing is done to extract the foreground image from the background, then feature extraction is carried out to extract the necessary details. The extracted image is matched with the dataset and the corresponding voice output is generated for that gesture. Likewise, a microphone is used to capture the speech input of the normal people by using this method the communication gap between the impaired and normal people reduced













4.3.2 Result-Ok

4.3.1 Result-HELLO



a flex sensor 1- Hello

We have tested with two tests a flex sensor forms a unique position, giving each position of gesture to generate a a flex sensor forms a unique position, giving each position of gesture to generate a unique position, giving each position of gesture to generate a sensor forms a unique position, giving each position of gesture to generate a unique position, giving each position of gesture to generate a sensor forms a unique position, giving each position of gesture to generate a unique position, giving each position of gesture to generate a sensor forms a unique position, giving each position of gesture to generate a unique position, giving each position of gesture to generate a sensor forms a unique position, giving each position of gesture to generate a unique position, giving each position of gesture to generate a unique position, giving each position of gesture to generate a unique position of gesture to gesture to generate





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Fig.4.4 Gesture controlled robotic arm

The Gesture Controlled Robotic Arm. This cutting-edge technology combines the precision of robotics with the intuitiveness of human gestures, revolutionizing the way we interact with machines.

Designed with simplicity and efficiency in mind, our Gesture Controlled Robotic Arm responds to subtle hand movements, allowing users to effortlessly manipulate objects with precision and accuracy. Whether you're in a manufacturing setting, a research laboratory, or simply exploring the possibilities of human-machine interaction, this robotic arm opens up a world of possibilities.

Imagine the convenience of commanding the arm to perform intricate tasks with just a wave of your hand. No need for complex programming or cumbersome controls—simply gesture, and watch as the robotic arm follows your commands with grace and agility.

With its advanced sensors and responsive technology, our Gesture Controlled Robotic Arm offers unparalleled versatility and ease of use. Whether you're assembling delicate electronics, conducting experiments in a lab, or simply exploring the frontiers of robotics, this innovative tool empowers you to do more, with less effort.

Join us as we redefine the future of human-machine collaboration with the Gesture Controlled Robotic Arm. Experience the power of seamless integration between man and machine, and unlock new possibilities in productivity, precision, and innovation.

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