L.D.College of Engineering,Ahmedabad Department of Biomedical Engineering Project - II SEM VIII Summer-2020 **Project Details**

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|------------|--|----------------|-----------------------|----------------------|--|--|
| Sr. No. | Project Title | Enrollment No. | Name of Student | Guided By | | |
| 1 | Design of crutches used in multi-terrians | 160280103047 | Prajwal Chauhan | Prof. B. H. Parmar | A healthy leg can support the body weight, but when | |
| | | 160280103058 | Krishna Thakkar | - | put some weight on his/her leg, using a "weight-bear his/her arm strength and balance, he/she can either | |
| | | 160280103010 | Desai Akshi | | use their legs to support their weight, for reasons rar market. However, with advantages few drawbacks a stability and comfortable use overcoming these draw | |
| 2 | Smart Bins for Hospital | 170283103002 | Darji Rashmi | Prof. P. L. Gohel | Medical care is vital for our life, but the waste general problem when the waste is not collected on regular loauses a direct health impact on the community, the | |
| | - | 170283103006 | Joshi Pratiksha | | | |
| | | 170283103019 | Yadav Riddhi | | human health. Every day, a large amount of infection a right time, the amount of infections or diseases get Bins for Hospital can be used over the recent improp measures the level of waste in bins through sensors information can be accessed anywhere over the inte | |
| 3 | Portable and Affortable | 160280103015 | Gajjar Arpan | Prof. B. H. Parmar | Our aim to make device using a Point of care (POC) | |
| | system | 170283103017 | Vaishnav Nancy | - | introduce a completely non-invasive, on-demand dia used for feature extraction and further it will be used | |
| | - | 170283103003 | Gandhi Trusha | - | this nail part for hemoglobin detection based on the tinon -invasive method and it is affordable and portab | |
| 4 | Biodegradable Surgical Stapler | 160280103027 | Shwet Makadiya | Prof. B. H. Mehta | Surgical staples made of pure titanium and titanium | |
| | - | 160280103026 | Nandan Kulkarni | - | magnesium is very expensive and it is not available | |
| | - | 160280103032 | Meet Shah | | material. The bioabsorbable surgical staples made fr skin (epidermis). Bioabsorbable polymers used in the need any specialized staple as PGA and PLA degrae | |
| 5 | Trauma Patch | 160280103049 | Aayushi Raval | Prof. U. V. Pancholi | Approx. 1, 40,000 Road accidents occurs every Yea – 48 hours are due to uncontrolled Bleeding. Treatm haemorrhagic conditions. Thus in traumatic condition | |
| | | 160280103044 | Vishwa Patel | | different from standard surgical gauzes. They stop suitable for self application at wound site. The hom When applied with manual pressure it promotes clo application is very useful in traumatic conditions. | |
| 6 | Assistive device for visually impaired person | 160280103023 | Snehal kasavala | Prof. Y. M. Parikh | A smart assistive device is invented to provide a sma find out if any obstacles are present in front of them | |
| | | 160280103059 | Priya vaddoriya | | The smart assistive device that we have designed w | |
| | | 160280103060 | Uttam vaghani | | detect obstacles ahead using ultrasonic waves. On s microcontroller then processes this data and calculat The GPS module tracks blind people's location and s help of GSM module. This is provided by manually p water at the ground level on rainy days. | |
| 7 | Impact of different meditative | 160280103052 | Shah Meghal | Prof. K. B. Bhoyania | | |
| | variation | 160280103014 | Dhok Meghana | | how meditative practices and humming affects the p | |
| | | 160280103063 | Vidhi Patel | | also includes the comparative effect on body and mi | |
| 8 | HMI Display for X-RAY | 160280103002 | Atara Raj | Prof. B. H. Mehta | Traditional x-ray machine has microprocessor embed | |
| | | 160280103009 | Delavadiya Meetkumar | | controlling board is more complex and take physical | |
| | | 160280103051 | Savani mayur | - | display to control x-ray machine parameters. A touch screen. | |
| 9 | Detection of rheumatoid | 170283103008 | Karan Mistry | Prof. B. H. Parmar | Rheumatoid arthritis (RA) is an inflammatory progressive | |
| | | 160280103040 | Karan Patel | | Rheumatoid arthritis (RA) is an inflammatory rheumatic dis Persistent inflammation leads to erosive joint damage and variation in that portion of that joint due to presence level thermography (MIT) as a diagnostic tool is well known for assessment of inflammation. Accurate assessment of infla the disease. Infrared (IR) sensor used as the functional se mm below the epidermal surface. The infrared energy radi | |
| | | | | | Depending on the temperature map, the IR sensing is also invasively. | |
| 10 | Myoelectric Arm | 160280103020 | Pruthvirajsinh Jadeja | Prof. H. B. Patel | When an arm or other extremity is amputated or los artificial limb can improve mobility and the ability to r prosthesis is an externally powered artificial limb that | |
| | | 170283103013 | Palak Raj | | | |
| | | 170283103018 | Tejasvi Vala | | project is to design low cost myoelectric hand which output of EMG signals applied to the servo motor for amputees at an affordable cost. | |

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| Abstract | Remarks |
| the patient has an injured leg or foot, you need to keep weight off it. Once he/she is told that he/she can ing" method of walking as the leg heals. Crutches are prescribed as per weight bearing. Depending on 'step to" or "step through." Crutches are an important and widely used walking aid for person who cannot ging from short-term injuries to lifelong disabilities. There are several types of crutches available in the so affect the user such as ulcer, less stability, swelling, etc. We aim to re-design these crutches for better backs. | |
| ted during the diagnosis, treatment or surgery of human beings or in research activities represents a real asis with proper management. Improper management of medical waste generated in health care facilities health care workers and on the environment. This waste is hazardous and may cause a serious threat to is and hazardous waste are generated in health care hospitals and if it does not collected from the bins at s increased. So for preventing the problem of waste system in hospitals, clinics or in health centers, Smart er waste management system in hospital. The smart medical waste management system (smart bins) and then sends the corresponding information about the bin level to the concerned authority by IOT. The rnet. This system will indirectly help to decrease the rate of infections in the hospitals. | SSIP |
| condition in which we'll take a picture of a nail image by applying processing & image algorithm. We gnostics that may replace common blood-based laboratory tests using only photos Nail image will be for Hemoglobin detection. This system has algorithm which will automatically extract nail area scrutinize extual and colour of a nail The development of this project will led to better diagnosis of Hb level using e. | |
| alloys are widely used in gastrointestinal anastomoisis. However the Ti staple cannot be absorbed in nination. High Purity Magnesium can also be used as Bioabsorbable material for staple but such high purity easily. Thus, Polymers such as PGA, PLA, PLGA, PCL which are easy to synthesis are used as staple om polymers that can degrade in human body. These bioabsorbable staples are placed underneath the e staples are Poly Lactic Acid (PLA) and Poly Glycolic Acid (PGA). These bioabsorbable staple does not des into the body over time. | IDP-CUG |
| in India. The major cause of death is due to Blood Loss. More than 50% of victims who die within first 24 ent of bleeding wounds requires immediate action otherwise severe loss of blood can lead to s control of bleeding and sealing the wound site is considered uttermost priority. Trauma patch gauze is eeding significantly faster and are more effective than standard gauze. It is safe and intuitive to use and is ostatic composition has organic and inorganic homeostatic agents which enhance the clotting process. ing within minutes from application to help save more lives. It is very easy to use and so spot on | SSIP |
| In the electric aid to visually impaired people. Traditionally visually impaired individuals used a normal stick to However this stick is not efficient in several aspects and the person using it has to face various difficulties. If help the visually impaired individual by providing more convenient means of life and to move around ide voice based assistance to visually impaired individuals. Our device first uses ultrasonic sensors to ensing obstacles the sensor passes this data to the raspberry pi microcontroller. The raspberry pi es if the obstacle is close enough. If the obstacle is close, the output is announced through the earphone. Bends the longitude and latitude information to its related person who can help in an emergency by the ressing the emergency switch. One more feature of this device is a moisture sensor which helps to detect | SSIP |
| ndent on our habits as well as habitat and the nature of energy surrounding them. This project determines hysiology of our body and mind through checking various parameters such as HRV, Stress, Moods etc. It nd through meditative practices tested on various subjects. | IDP - Wellness Space |
| Ided controlling board to control the x-ray machine parameters. Push buttons are used to control x-ray ally, Manufacturing industries suffer from this old controlling technology which effects sale of product. This efforts to operate. So, we are using less complex microcontroller base Arduino board and touch screen screen is very useful for easily accessing information or giving a command by simply touching the display | IDP- Genuine X-ray |
| disease which in the absence of appropriate treatment can lead to joint destruction and disability. In Arthritis, the self- a result chronic inflammatory disease might occur. sease with progressive course affecting articular and extra-articular structures resulting in pain, disability and mortality. functional impairment in the vast majority of patients. Effect on the extra-articular disk can create temperature of synovial fluid. The skin surface is responsible for maintaining the core internal body temperature. Medical Infrared ts contribution in providing statistical quantification to detect acute to minute temperature deviation for accurate mmation helps in making early individual treatment plan and also offers an insight to the determination of severity of nsing modality for measuring the inflammation radiated from the superficial dermal microcirculation that resides 1–2 ated from the human body are converted into electric pulses and digitally indicated on the spatial temperature map. used to analyse the temperature oriented physiological functions. We use this technique to diagnosis RA non- | SSIP |
| a prosthetic device, or prosthesis, can play an important role in rehabilitation. For many people, an nanage daily activities, as well as provide the means to stay independent. A Myoelectric controlled you control with the electrical signals generated naturally by your own muscles. The Objective of the utilizes myoelectric control. EMG signals acquires from the hand, perform pre-processing task and the final movement of 3D myoelectric hand. The hand will be able to help improve the quality of life of upper limb | |

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| 11 | Indian Currency recognition | 160280103012 | Shweta Devani | Prof. Y. M. Parikh | One of the most important problems faced by visual | |
| | | 160280103013 | Maher Dhanani | | currency recognition system applied on Indian bankr | |
| | | 160280103019 | Himanshi Shah | | finally template matching based on trained network. | |
| 12 | Wearable device for drowsy | 160280103041 | Patel priyaben hasmukhlal | Prof. P. L. Gohel | In recent years, driver drowsiness has been one of the | |
| | drivers . | 150280103003 | Arjun Dahiphale | | economic losses. Statistics indicate the need of a rel Researchers have attempted to determine driver dro | |
| | | 170283103007 | Drashti Mehta | | physiological measures. A detailed review on these that need to be done to make a robust system. In th limitations of each. The various ways through which hybrid drowsiness detection system that combines r level of a driver. A number of road accidents might t | |
| 13 | Manual drug delivery device for respiratory diseases | 160280103046 | KRUNAL R PRAJAPATI | Prof. U. V. Pancholi | Nebulization or atomization is a technique of transfor Generally, nebulizers can be sorted into jet, ultrasou | |
| | | 160280103056 | VIJAYRAJ SINGH SOLANKI | | factors such as distal drug deposition on the face an the extent of performance and its efficiency. Aerosolization is the first-choice route of administrati inhalers (DPIs) and nebulizers are the devices curren | |
| | | 160280103053 | PRIYA SHAH | | maximal benefits from both pMDIs and DPIs. Current The goal of this project was to produce a MANUAL D | |
| 14 | Fabrication of Paper based | 160280103045 | Prajapati Devanshi R. | Prof. U. V. Pancholi | The project describes the use of a printed circuit tech | |
| | microfluidic device using | 40000400057 | Kakai Canalikumari D | | Patterns of channels were designed using AUTOCA | |
| | printed circuit technology | 160280103057 | Kokni Sonalikumari D. | | At last, the etched copper sheet was coated with a f | |
| | | 160280103007 | Chavda Nirav | | An electric iron was used to heat the other side of the "wall". | |
| 15 | Design and fabrication of | 160280103031 | MANGAROLIYA DHRUVI B. | Prof. B. H. Mehta | Mobility of the Physically Challenged people or cripp | |
| | person | 160280103035 | PANCHAL DHARTI Y. | | wery difficult or impossible due to illness, disability, of movements like left, right, straight and back. Moreov | |
| | | 160280103005 | DHRUTIV BHAVSAR | | movement of chair which will be convenient for the p | |
| | | 160280103039 | JINIT PATEL | | multiple features and complex design which makes in which can be afforded by people with low financial st wheelchair has been designed to convert as a stretc | |
| 16 | Hazardous Obnoxious | 170283103011 | Juhi Sanjivkumar Patel | Prof. B. H. Mehta | It is an irrefutable fact that health is an essential part | |
| | Mask) | 170283103005 | Jethwa Saloni G | | introduce a HOPE mask. This mask is convenient to | |
| | | 170283103015 | Sagar Khushbu A | | is filter material. Filter is made from different material fiber. Cotton and other | |
| | | 160280103037 | BHUMI PATEL | | Filter is made from material used in filter part; nonwo material. Whenever particles and aerosols are intera The work presented here primarily focuses on gener NANOTECH endowing nano*(a miniaturized handhe Ethanole at varying concentrations was used to rapid | |
| 17 | Analysis of Heart Sound & | 160280103034 | Nagar Anjali Mukeshbhai | Prof. K. B. Bhoyania | Cardiovascular diseases have become one of the me | |
| | Mamurs for Cardiac Disorder | 160280103021 | Jayas Tanuja | | heart sound detection techniques play an important in design of computer-aided systems for heart illnesses with stethoscope, from sensor design, front-end circu the technological and medical basis for the developm system. | |
| 18 | Low Cost Vein Detection Technoogy | 170283103009 | Maushmi Mukherji | Prof. B. H. Parmar | Vein Detector is a system which aims to help locate a expensive. In this project, a simple design is propose technique. The enhanced image can be projected ba In some cases like of an obese person, premature ba required vein and I sincerely have tried to develop a technique using certain particular software for perfect | |
| 19 | Breast Cancer detection using Mammograms | 160280103062 | Varsolia Anjlai A | Prof. P. L. Gohel | Mammography is specialized medical imaging for sca | |
| | | 160280103055 | Solanki Divyesh B. | | double thresholding-based approach for Mammogra | |
| | | 160280103061 | Vankar Mahesh | | the original image helping physicians to easily detect qualitative detection into Mammograms, helping physicians but also for all biomedical images, as an enhanced s Moreover, this manual thresholding method has the a | |

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| Abstract | Remarks |
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| impaired people is money recognition especially paper currency. In this project we present a simple otes. Proposed system is based on Neural Networking that ensures performing the process as fast and ur proposed system includes image foreground segmentation, region of interest (ROI) extraction and | |
| e major causes of road accidents and can lead to severe physical injuries, deaths and significant able driver drowsiness detection system which could alert the driver before a mishap happens. vsiness using the following measures: (1) vehicle-based measures; (2) behavioural measures and (3) neasures will provide insight on the present systems, issues associated with them and the enhancements paper, we review these three measures as to the sensors used and discuss the advantages and drowsiness has been experimentally manipulated is also discussed. We conclude that by designing a in-intrusive physiological measures with other measures one would accurately determine the drowsiness en be avoided if an alert is sent to a driver that is deemed drowsy. | |
| ning liquid into a fine mist and the machine used for this particular purpose is called a nebulizer. d and mesh which are classified on the basis of the method of production of aerosols from liquid. Various I mask, median aerodynamic diameter, remaining drug after nebulizing and nebulization time, determine | |
| on for the treatment of many respiratory diseases. Pressurized metered-dose inhalers (pMDIs), dry powder tly used to administer the aerosolized drugs to the lungs. Among these delivery devices, nebulizers are of therapy when the prescribed drug cannot be aerosolized by other systems or in patients unable to draw y, home nebulizer practice seems to be very heterogeneous among different countries. RUG DELIVERY DEVICES FOR RESPIRATORY DISEASES and to overcome and troubleshoot the | |
| nology to generate hydrophilic channels in a filter paper. D. Then, the patterns were transferred to copper sheet using electric iron. chloride solution to etch the whole pattern. m of paraffin and then a filter paper. copper sheet. The melting paraffin penetrated full thickness of the filter paper and formed a hydrophobic. | |
| lucose were demonstrated which is helpful for monitoring health and detecting diseases. | |
| ed people is a great concern of the society. A wheelchair is a chair with wheels. It is used when walking is injury. Joystick controller based mobility aid wheelchair has been designed for the all possible direction of er, the DC geared motors are used for the movement of the wheels for the purpose of lower speed hysically challenged. Now a day's expensive Motorized Wheelchair cannot be used by people under weak ess which may be due to old age or functional disability. The wheelchairs available in the market have expensive for such users. In this project an attempt was made to design a low cost motorized wheelchair ability. The proposed wheelchair system has the idea to run both in indoor and outdoor environments. The er which will make the physical challenged people to feel better during relaxation and night times. | |
| of everyone's life but pollution is gradually augmenting and that creates some innumerable health lar problem and cause infection in eye, nose and throat. So for controlling this detrimental effect we extract the PM 2.5 from the breath and help individual to inhale toxic free air. Main component of this mask such as Polyvinylpyrrolidone (PVP), Ethanole, Polysulfone, Borosilicate, Activated Carbon, Nano gauze | |
| ven fiber material which is used as substrate material and generated fibers are bound with these substrate sting with fiber at that time particles are easily absorb and provide fresh air to person. Iting the fiber device using random, non-woven polymer nanofibers electrospun using E-SPIN d electrospinning apparatus). In the current scope of work, a blend of Polyvinylpyrrolidone (PVP), ly fabricate nanofibers. | |
| st prevalent threats to human health throughout the world. As a non-invasive assistant diagnostic tool, the ole in the prediction of cardiovascular diseases. Advances in technology and signal processing allow the detection from heart sound Signal. It covers in depth every key component of the computer-aided system itry, denoising algorithm, heart sound segmentation, to the final machine learning techniques. It provides ent and commercialization of a real-time integrated heart sound detection, acquisition and quantification | |
| nd distinguish vein effectively for various medical purposes. The existing technology is complex and d to capture the vein images under infrared lighting and extract the vein pattern using image processing ck on to the patient's hand. by and diabetic patients; it becomes very necessary to design a device that detects the exact location of ow Cost Vein Detection System with Infrared source and an Infrared camera with a good processing visualization. | IDP- Bioteknika |
| nning the breasts. A mammography exam (A Mammogram) helps in the early detection and diagnosis of seful in detecting the breast cancer regions, hence, better diagnosis. In this paper, we applied enhanced hs' image segmentation. Moreover, we added the borders of the final segmented image as a contour to the breast cancer into different Mammograms. The result is enhanced wise effect onto breast cancer icians for better diagnosis. Generalization for our study is possible for not only x-ray based Mammograms, egmentation way for better visualization, detection, and feature extraction, thus better diagnosis. dvantage of not only reducing processing time but also the processing storage area. | |

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| 20 | Agnikalpa (Flameless Portable | 160280103067 | Subhajit Das | Prof. H. B. Patel | The name of our project is 'Agnikalpa' (Flameless po | |
| | Kellie) | 170283103001 | Chaturvedi Isheet Kumar R. | - | places either for his work or for his refreshments like | |
| | | 170283103004 | Gohil Parth Rajesh | | climatic conditions, for example Siachin glacier which contribution help to those people who are living in su in the form of exothermic chemical reaction. and you three layered wall makes it suitable to be used at any | |
| 21 | Motion based Message Convevor for disabled Person | 160280103022 | Adil Karnelia | Prof. H. B. Patel | Paralysis people are not capable of full body movem | |
| | | 160280103033 | Ashikali Momin | | system that helps paralysis/disabled person display direction of the user part. This device needs to be m | |
| | | 170283103016 | Harsh Siddhpura | | need to tilt the device in a particular angle to convey | |
| 22 | Wireless Heart Rate Monitor | 160280103050 | Savan sanghani | Prof. Y. M. Parikh | A wireless heart rate monitor is a personal monitoring | |
| | | 170823103010 | Hinali Patel | - | potential from the heart is carried out by a electrodes | |
| | | 170283103012 | Poonam Patel | | 50HZ notch filter. Then the signal is filtered by second of MATLAB. After that the signal is transmit or receive of | |
| 23 | Electronic Speaking glove | 160280103036 | Parth Panchal | Prof. K. B. Bhoyania | In our daily life we have to communicate with many p | |
| | | 160280103029 | Bhagirath Makwana | | who can't speak and hear properly. Physically impain knowledge. So, here we designed simple embedded | |
| | | 160280103004 | Vipul Baldaniya | | chip which is interface with flex sensor. Flex sensor with flex sensor makes the input in arduino and LCD programming software is used for the coding. This S | |
| 24 | Skin Lesion using Image | 160280103017 | Nikunj Gohel | Prof. P. L. Gohel | This project explains the method for detection of mel | |
| | Processing | 160280103016 | Dhaivat Gohel | - | computer analysis and image processing. So the fea segmentation algorithm is required which can effective | |
| | | 160280103003 | Sanjay Baldaniya | | techniques which are used in the segmentation proc techniques. The pre-processing approaches employe for get effective output and as possible as to get max | |
| 25 | Anti swelling Orthopedic Cast | 160280103042 | Patel Rutu | Prof. U. V. Pancholi | 3D printing is a manufacturing technique by which t technique had primarily found uses in academic and consumer market has seen a surge in low cost print clinical sector, where alongside the synergistic use | |
| | | 160280103011 | Desai Viral | | advent of more sophisticated multi-material printers, and evaluate the feasibility of designing and realizing casts, through the use of advanced 3D modelling an investigate critical parameters such as the time for m anatomy and additional user-centric metrics (comfort the cast, such that the device would require less mat | |
| | | 160280103065 | Abhirup Chakraborty | | air penetration to the person skin, thereby reducing of study is the design and product realization phases at 3D printed cast was significantly lighter, with improve precision design/manufacturing techniques, the final orientation of the patient's bones during post fracture traditional casting methods owing to the additional tin methodology such that a generic cast design can be that through the use of advanced design techniques potential to augment current use of this technology for field will likely enable more patient specific/user-cent | |
| 26 | SIGN LANGUAGE TO WORD PREDICT | 160280103066 | Pankaj Tajuria | Prof. B. H. Mehta | It is a deeplearning algorithm in which we can conve way the speech and hearing impaired (i.e dumb and normal people who cannot understand sign language speech and hearing impaired people and the normal communicate with all other people using their norma The project uses image processing system to identify into text so that normal people can understand. | |

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| Abstract | Remarks |
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| rtable kettle) this is a sanskrit word which means 'Bikalpa of Agni' or in English "an option to fire". from ent parts of the world and establishing settlements. In present time we see that man has to go to different travelling, trekking etc and for work like guarding our borders which are at different places having different is having one of the worlds extreme climatic condition. our project is is mainly focused to provide ch conditions. it is basically cooking device which makes the use of chemical energy for producing heat it too it's lightweight and appropriate design it can be carried along anywhere at any time and the design of the condition weather too hot or too cold. | |
| ent as compared to a normal person and they also can't able to speak. In such a situation,we propose a a message by just simplemotion of any part of his body. Our proposed system works by reading the tilt ounteed on the user finger of hand or any body part which can make some moment .The user now just a message.Tiliting the device in different directions conveys a different message . | |
| g device that allows one to measure heart rate from the remote location. It is largely used to gather heart exercise. Measuring electrical information is referred as electrocardiography. In this first the electrical and it is amplify by instrumentation amplifier because the signal from the electrode is too small around 5 order Butterworth bandass filter which pass band is 0.5 to 150 HZ. The mains frequency is removed by tal form by aurdino board and further process like digital filtering and heart rate frequency detection in over distance using RF transmitter receiver module. | |
| eople. For the communication most of the task done with speaking and hearing. There are many people red person can't communicate with normal people using sign language because of the lack of the system for solving this problem. In this system we use the arduino inbuilt Atmega328p microcontroller work on the change of resistance and used as a input device. Movement of the finger and the banding of gives the output in text. Bluetooth module(HC- 05) is used to convert the text in to the voice. Arduino system will help the impaired people by provide a medium to communicate with others | |
| anoma using image processing tools. The Efficient tools supporting quantitative medical diagnosis are ture extraction phase is enormously dependent on the detected region which has the disease. So suitable vely detect the skin melanoma pixels in the information image. In this work, we have discussed various edure. The input to the system is the Dermoscopic Image and then by applying novel image processing ed in detecting various stages include collection of Dermoscopic Images. We can use deep learning tools kimum accuracy of our project software. Whole coding done in python language. | |
| e material is added layer by layer to create a physical three-dimensional object. This manufacturing commercial sectors for prototyping and product realization purposes. However, more recently the home rs bringing this capability to the masses. More recently 3D printing has seen considerable interest from the ith medical imaging data, a whole generation of patient specific implantable technologies, splints/casts clinical applications have focused on the use of 3D printing for bone replacement, however with the interest has now begun to move to applications in orthotics and orthopedic casting. This study is to review a more patient specific orthopedic cast to surpass current limitation with traditional fiberglass/plaster d printing techniques. To directly compare the efficacy of the traditional and 3D printed casts, we shall anufacture, the overall weight of the final product, the accuracy off the cast relative to the patient's unique asthetics, etc.). The design examined made use of advanced mesh structures throughout the bulk of erial (by weight) during fabrication, could allow for tunable weight and mechanical properties and allow for liscomfort due to prolonged moisture exposure (chaffing, bad smells, etc.). As the primary focus of this and we shall not assess metrics relating to patient recover time or experience. Overall, it was found that the dwater repellent and air circulation properties, as compared to a traditional cast. Through the use of high device could be accurately reproduced to match the test patient's unique anatomy, thereby optimizing the recovery. It was however found that the manufacturing time for the 3D printed cast was slower than ne during the design phase. In future work we aim to address this limitation and to devise a streamlined adapted to patient specific data and 3D printing, a custom orthopedic cast could be realized and with significant por surgical intervention and improve patient outcomes. The use of advanced manufacturing in the medical ric treatment in the near future. | |
| t sign language into word for those peoples who are deaf or unable to communicate with world. The only deaf) people can communicate is by sign language. The main problem of this way of communication is a can't communicate with these people or vice versa. Our project aims to bridge the gap between the people. The basic idea of this project is to make a system using which dumb people can significantly gestures. The system does not require the background to be perfectly black. It works on any background. | |