CHIRAG HEGDE

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EDUCATION

Fr. Conceicao Rodrigues College of Engineering|(Score : - 8.86 CGPA)

Aug. 2018 – May 2022

Bachelor's of Engineering, Electronics Mumbai, India

Khar Education Society (Score :- 79.38%)

Aug. 2016 - May 2018

Higher Secondary Education

Mumbai,India

PROJECT

Portable Survival Kit | AutoCad, Arduino design

2021-2022

- · Design and development of a Survival kit to survive in a catastrophic high health risk environment.
- Breathing Aid: Developed air purifier that would filter 30000 liters of contaminated air and eliminate contaminants such as pm 2.5
- Using only 376g of zeolite, a chamber of zeolite 13x grade was designed and simulated to absorb pure oxygen from the environment and store it for 2.5 hours.
- Water filter system: The Water system with UV chamber designed and automated using solenoid valves which could purify 200 ml of water in 10 seconds.
- Heating Mechanism: Designed a heater using Ni-chrome wire and white cement casting and simulated to achieve 7 Ω. Coil designed to
 achieve a power consumption to 144 W.
- · Concept design of a Ni-chrome wired jacket to keep the user warm in extreme climatic conditions.
- Tracking system: Developed SOS system using GPS, GSM technology and Arduino uno used for location tracing. In Future LORA could be implemented, thus eliminating the disadvantages of GPS.
- Battery Management System: Design and fabrication of BMS and used simulation technique to increase the capacity to 11400mAH.

Sign language recognition system | ML, AI, Raspberry PI 3 B+, Edge Impulse

2020 - 2021

- Developed a Sign language recognition system for those who are deaf or hard of hearing for easy communication.
- Created a database with 452 images depicting gestures corresponding to English alphabets
- · Using ML techniques to test and train data we achieved 61 percent accuracy, which was later enhanced to 92 percent by adding more data
- Developed Hand gesture detection system using Raspberry Pi 3B+
- Simulated the gestures using Edge Impulse connected to the ML algorithm to detect relatable alphabets ready for Display
- In future it could be developed into a system for Gesture-to-Voice delivery using Raspberry Pi, thus enhancing user interface and achieving higher accuracy.

SKILLS

Circuit Design, Soldering, JAVA, HTML, CSS, SQL, Raspberry Pi, Automation and Simulation AutoCAD, Microsoft office

ACTIVITIES

Robocon CRCE |

2019-2020

- * Rugby Playing BOT
- * Design and development of E-Circuits for BOT
- * Design and fabrication of circuit and wiring system
- * Designed and fabricated KICKING and GRIPPING mechanism

Siddhivinayak milk Suppliers |

2020-2021

- * Milk Tank level indicator
- * Glowing a red bulb when tank level gets full using components such as Ball Float & Limit switch.
- * Thus making it easier for the plant operators to manually operate the pump.
- * Further it could be developed for automation of milk pumps, for filling the tanks.

IMPORTANT LINKS

LinkedIn: https://www.linkedin.com/in/chirag-hegde-6068551b9/

Github: https://github.com/Chirag2810

Hackerrank: https://www.hackerrank.com/chiraghegde101