

Aljo Jose

Electronics and Communication Engineer

Passionate Electronics & Communication Engineer |
Enthusiastic about IT and Programming | Python and
Core Java Enthusiast with Strong Logic and Problem-
Solving Skills



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EDUCATION

Bachelor of Technology

Electronics and communication Engineering

06/2020 - 06/2023

Sahrdaya college of Engineering
and Technology

Diploma

Instrumentation Engineering

05/2016 - 04/2019

GPTC Koratty

PERSONAL PROJECTS

Taimac : A device to take body tailoring measurements.

- In python language by using libraries such as opencv,cvzone,mediapipe.TaiMac uses the technology of Digital image processing to take accurate physical measurements and calculate the dimensions of the human body. We use this technology to obtain the exact physical measurements of a person. This is mostly used in Textile Industries and can be used by Forensic department to take the measurements of dead body since it is a contactless process. A person himself can the measurements with out depending on another person.

Automatic Cannula Injector

- This device is capable of automatically detecting the vein and injecting cannula to the selected vein. It has been a major problem for medical services such that even experienced doctors often have difficulty in determining the best possible vein. Improper detection of veins may lead to severe problems, starting off with blood clot, rashes, bruises etc. to amputation in worst case scenario. The procedure used for vein detection involves the use of a modified near IR camera to capture the image, from which, through image processing, by applying grey scaling, CLAHE, bilateral filter the vein is identified. The position for injecting can be determined by using bounding box.The centroid of the bounding box determines the position of the vein. The determined vein is considered as the injecting point. Using the IR camera the 3 coordinates of the point is measured and the corresponding data is given to the robotic arm where the cannula is present. After the data is received, with the help of robotic arm the cannula is precisely pointed to the point on the vein.

Smoke Detector Using MQ2 Sensor

- A device which can detect the presence of smoke, gas etc and it it will give indication after detection by an alarm

SKILLS

Basic Java oops concepts

Basic C programming

Basic Python

CERTIFICATES

Implant Training Certificate(02/07/2018-14/07/2018)

Successfully undergone Implant Training at FACT Ltd.Cochin Division

**Training Program on Process Control Automation
(06/2019 - 08/2019)**

Successfully completed training on Process Control Automation at
Automation Technics Co.Kochi,Kerala,India

LANGUAGES

English,

Professional Working Proficiency

Malayalam

Full Professional Proficiency

Hind

Limited Working Proficiency

INTERESTS

Sports

playing Cricket and Football

Travel