

WWW.INNOVATIOSTECH.COM

FIRMWARE | ELECTRONICS | MANUFACTURING



INNOVATIOS
TECHNOLOGY

ENGINEERING THE FUTURE





ABOUT COMPANY

INNOVATIOS TECHNOLOGY- ENGINEERING THE FUTURE

"We introduce ourselves as an electronics design and manufacturing company with a wide range of products dealing in cutting-edge technology"

Our Company Mission

Our mission is to automate the manual work progress with cutting-edge technology that has potential of making everyone lives better.

Our Company Vision

We are building next generation automation solutions and products capable of solving day-today problems of humanity.



innovatiOS
TECHNOLOGY
ENGINEERING THE FUTURE

OUR EXPERTISE

Manufacturing
PCB Fab & PCBA
Rapid Prototype
CNC & Sheet Metal
3D Printing
SLA & FDM
Production

**Embedded
Systems**
PCB Design
Firmware-Qt,C,C++
BLE,WiFi
LoRaWAN
GPS,4G,5G

**Product
Enclosure
Design**
Kiosk & SPM
Toys, Devices
Wearables
Gadgets

Automation
Motion Platform
PLC Scada
Machine
Vision



OUR BUSINESS

INNOVATIOS TECHNOLOGY- ENGINEERING THE FUTURE

- ✓ GUI and HMI Design: Figma, Qt, Custom Display, Touch Panel
- ✓ Firmware and Software Development: Embedded,Qt,C,C++,Python
- ✓ Hardware Development: Schematics & PCB Design
- ✓ Product & Enclosure Design
- ✓ 3D Printing & Rapid Prototyping
- ✓ Custom WebApp Development
- ✓ Flutter: Android & iOS Development

1-STOP SHOP

INNOVATIOS TECHNOLOGY- ENGINEERING THE FUTURE



IDEATION

We take your ideas & process it



DESIGNING

We do a formation to your idea



DEVELOPMENT & VALIDATION

We build a working model of your idea



PROTOTYPING & MANUFACTURING

We facilitate production after prototyping

TECHNICAL SKILL SETS

INNOVATIOS TECHNOLOGY- ENGINEERING THE FUTURE



Qt/QML- GUI/HMI
Design & Development
C/C++ Coding



Embedded C/C++ Coding
I2C, SPI, UART Drivers
Library & Function APIs
Firmware Development



Product & Enclosure
Designing- Consulting
3D Printing & Scanning



Factory Automation
Industrial Use-cases
Manufacturing &
Production Support



Schematics & PCB
Designing, BOM,
Hardware Outsourcing &
Procurement



PCBA Support
Validation, Testing &
Consulting Support



Image Processing
Camera Solutions
A.I, M.L, Neural
Network



Desktop Software-
C/C++, Python
Licensing &
Security Solutions



Web Application &
CRM Development
NodeJS, React,
AngularJS, APIs

HARDWARE & SOFTWARE TECHNOLOGY

BLE5.x TECHNOLOGY

IMU, Pedometer, Medical Devices, Tracking & Locate, OTA (Over-the-Air) Updates, DFU, BLE Mesh, BLE Gateway, Power Profile Management, Low Power Devices, BLE Security

WiFi TECHNOLOGY

ESP8266, ESP32, CC3200, Ublox 802.11n 2.4Ghz, 5Ghz Data Loggers, Edge Devices, OTA, WiFi Security, MongooseOS, AWS, Blynk IoT Indoor & Outdoor Tracking, Locate module

LoRa Technology

RFM95, STM32WL, 868, 915, 433 MHz LoRa Node, Gateway, Things Network, Low Power LoRa Nodes, Security & Sensor Analytics Communication Nodes

PCB & Schematics

Layout Design Design for Manufacturability (DFM) Gerber File Generation Prototype Fabrication Component Sourcing Regulatory Compliance PCB assembly & testing Turnkey Solutions

Embedded SDK/IDE

Keil, CubeMX, Eclipse, IAR Workbench, Atmel Studio, MATLAB, Segger Embedded Studio

ARM Tool-chain, Software Architecture, Documentation

MCU & Processors

STM32, NRF51/52, TI MSP, PIC Microchip, NXP LPC, Raspberry Pi, Nvidia Jetson, RISC-V-SBC, Arduino, ESP, MAX326xx series, Renesas, NXP/Freescale, ARM Cortex-M0, M1, M3, M4, M7-based microcontrollers from multiple vendors

Software- GUI/HMI

Qt/QML, PyQt, Tk, PySide, Pyinstaller, DLL, C, C++, Python Programming

Camera OpenCV

Opencv, ONVIF, CMOS CAM, Live Cam, CCTV Video Monitoring, Facerec, Emotion Recognition

Robotics & Motion Platforms

Haptic Feedback, Gaming Controllers Robotic Mechanism, VR Motion Platforms-2/3/6 DOF, Robotic ARM

Network & Communication

I2C, SPI, UART, CAN, MODBUS, USB, MQTT, HTTP, FTP, Zigbee

WebApp & CRM-APIs

REST apis, git, PHP, Laravel, NodeJS, SpringBoot, React, Flutter

Cloud Server & Support, GCP, AWS, Azure Portals

A.I M.L D.L Neural Network

SciKit, Sklearn, dlib, data analysis, EEG & EMG Solutions

OUR FEATURED PRODUCTS



INOS BOT

Semi-autonomous mobile robot engineered for dynamically operating in challenging environments.

<https://youtu.be/mdjM-TfkFA>



COVID 19 LOGGER DEVICE

"A large number of tests can be done in minimal time"

<https://youtu.be/DsJBoN4LUMg>



EMG KIT- 7DOF ROBOTIC ARM

Electromyography (EMG) measures muscle response or electrical activity in response to a nerve's stimulation of the muscle.

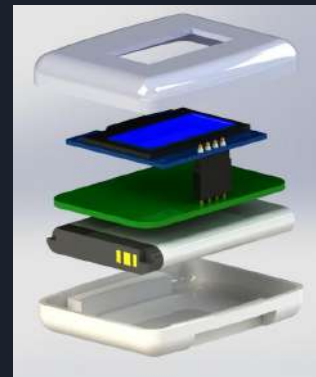
https://youtu.be/uN4q1ok_Dvs



CROPY- AGRITECH

CROPY is the best solution for the diagnosis of crop infection in the early stages

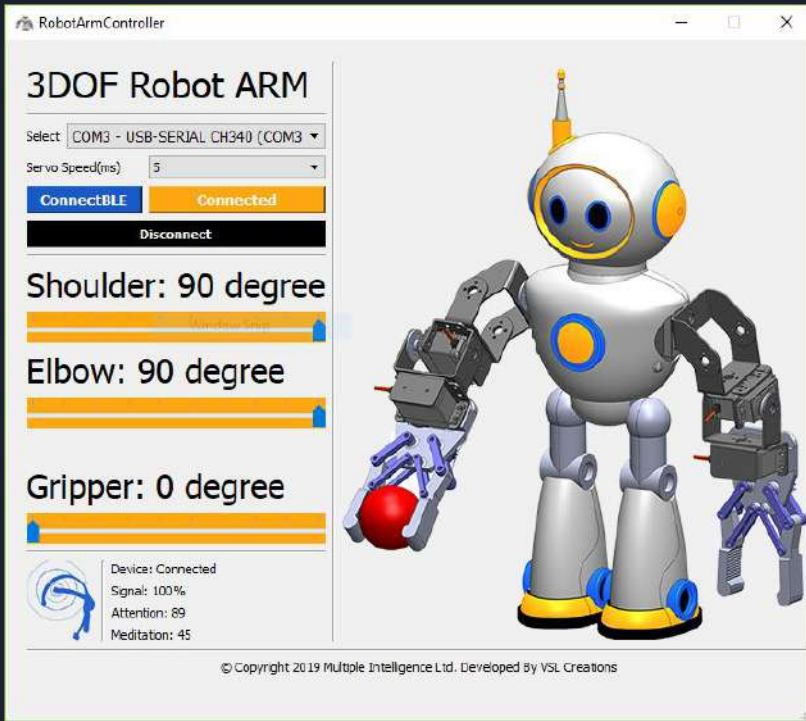
<https://cropy.co/>



LOG DEVICE- WIFI + BLE

Wearable Technology Solutions #wifi #ble #rfid tracking devices

https://youtu.be/YLq4Qol_tjc



Robot Control Software

Custom designed & manufactured.



BYTE- Bite Force Device Device

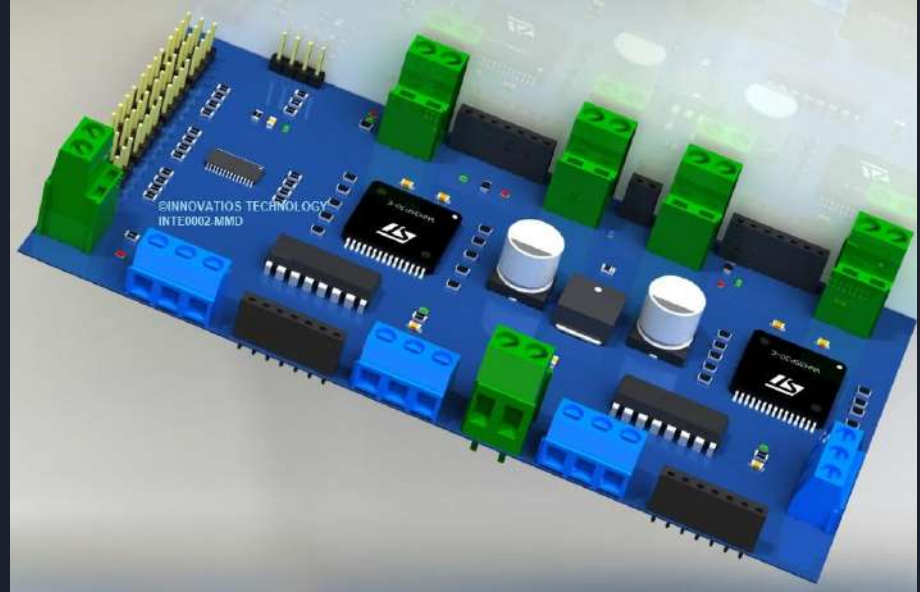
Force Sensor , BLE, Rechargeable Battery, USB Charger,
Device Firmware.



WiFi + BLE + LoRa Module

Custom designed pcb & manufactured:

<https://drive.google.com/open?id=1BrBUE1aULHfuiKCKMe-9Cg9jeExXMU>

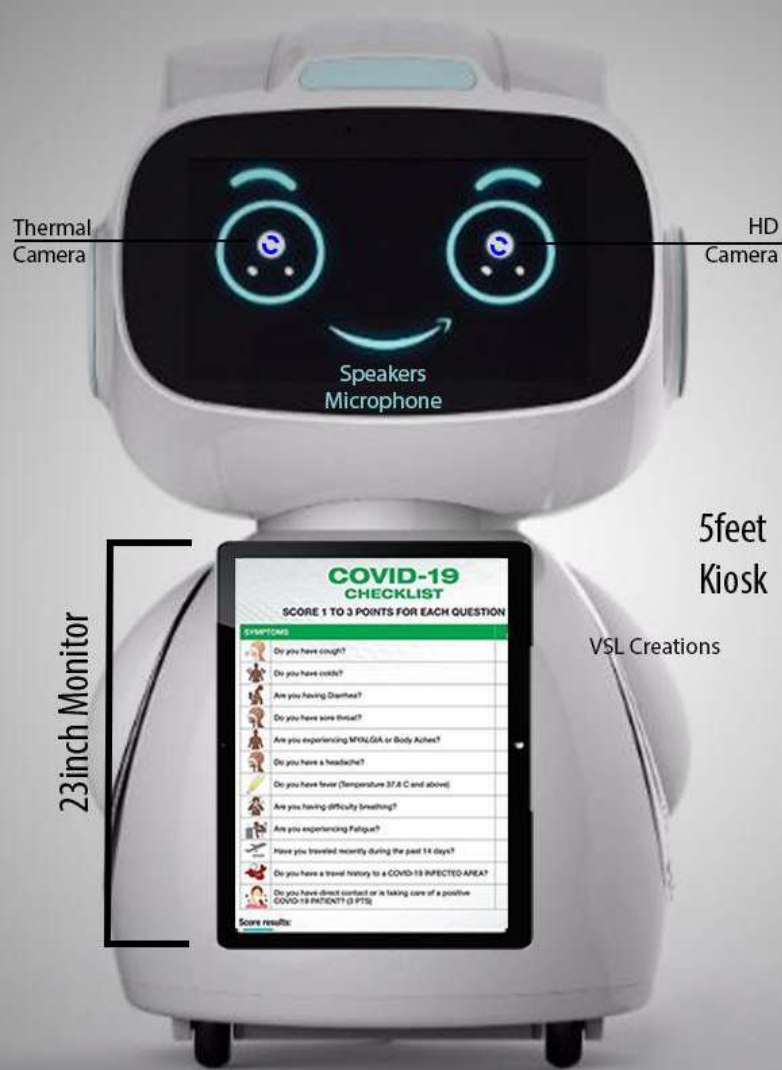


MMD- Master Motor Driver

Embedded & Power Electronics: 4DC Motors upto 24V,30Amps | 16Servo Motors upto 6V 10Amps | 2Stepper Motors

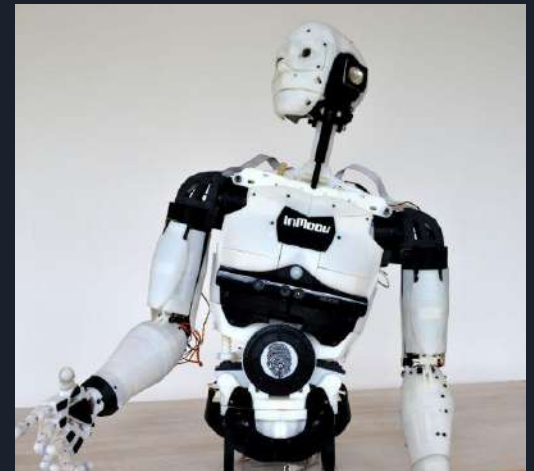
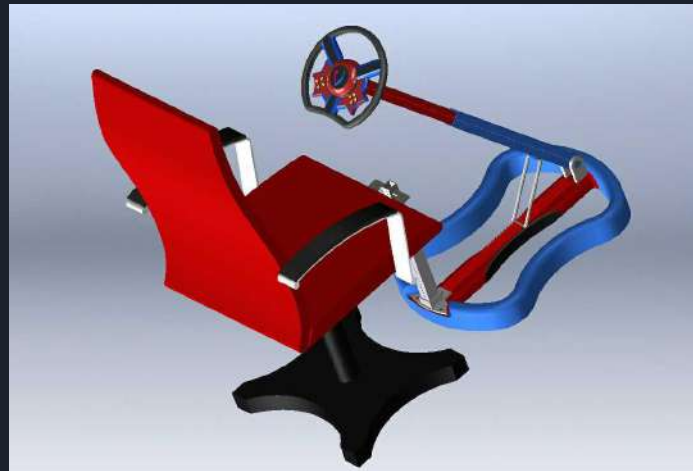
Custom Designed Kiosks

- 8th Generation, 3GHz processor, 4Cores, 8GB RAM, 240GB SSD, 802.11 WiFi, Ethernet, Bluetooth 5.0, 23" Multi-Touch, 1920 x 1080 at 60 Hz display in front
- Eyes will have BLUE + RED LED to show emotion & reactions with games
- Ultrasonic Sensor on TOP to auto-detect if a human comes in front & start Kiosk Software
- Speaker & Microphone for future software & gaming experience
- A camera on TOP behind UltraSonic sensor for future software & gaming experience
- Wireless keyboard & mouse for debugging & testing purpose
- Glossy & finished look in FRP
- Software Updates: Interactive sounds, small chat app to talk with users

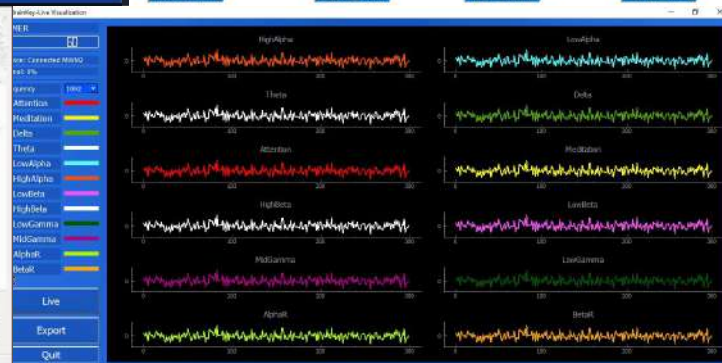
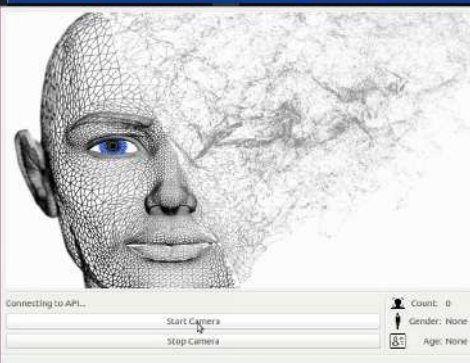
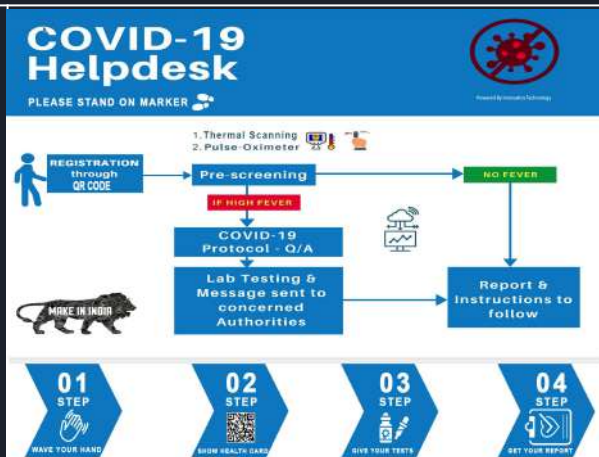




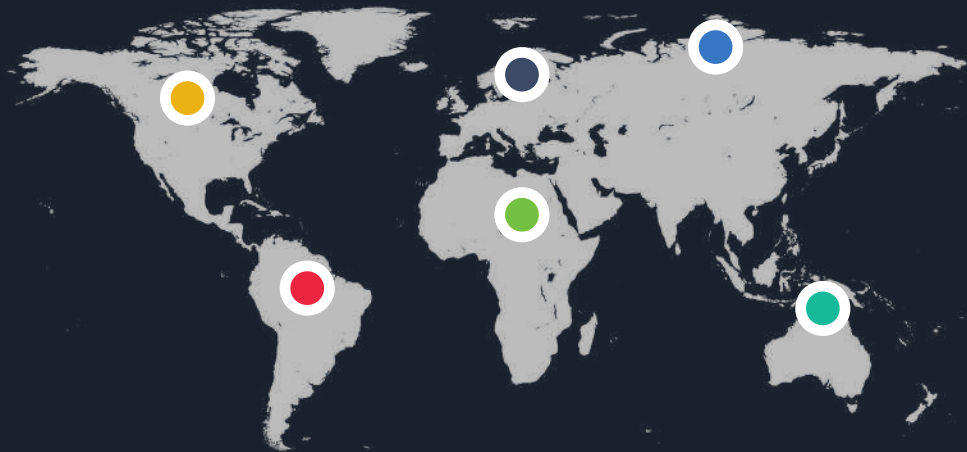
CUSTOM DESIGNED ROBOTIC PLATFORMS & SOLUTIONS



SOFTWARE- GUI/HMI SHOWCASE



OUR GLOBAL CLIENTS & PARTNERS



UNITED STATES

+200

projects ongoing/delivered

EUROPE

+20

Clients, projects & distributors

AUSTRALIA/NEW ZEALAND

+50

clients & services

ASIA- Taiwan, Singapore, Malaysia, CN, HK

+50

technology partners, distributors, vendors, clients, projects & services



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+91-9304590542

enquiry@innovatiostech.com

www.innovatiostech.com

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