

"Connecting Things to internet"

At Dotcom IoT Services, innovation drives everything we do. We create IoT and hardware solutions that help you Connect, Collaborate, and Grow — turning everyday things into powerful, connected possibilities.



About Dotcom IoT

Dotcom IoT is a technology innovation company specializing in hardware design and development & IoT solutions. Our expertise spans firmware development, BSP development, cloud integration, and application development — including custom Android and custom Linux solutions. This end-to-end capability allows us to deliver customized, high-quality solutions that accelerate time-to-market.

We focus on quality, compliance, and cost efficiency, helping businesses reduce time-to-market while ensuring reliability. With a strong vision for the future, Dotcom IoT delivers scalable, industry-ready solutions that empower digital transformation.



Our Mission

At Dotcom IoT, our mission is to make smart technology simple and impactful. We design and deliver tailored IoT solutions that enhance efficiency, connectivity, and everyday experiences. With a focus on innovation, quality, and flexibility, we help businesses unlock the true potential of connected systems and digital transformation.

Our Vision

At Dotcom IoT, our vision is to "Connect Things to the Internet and Beyond." We aspire to create a world where every device, system, and process is seamlessly connected, driving smarter decisions, sustainable growth, and meaningful digital transformation. By bridging the gap between ideas and technology, we envision a future where connectivity empowers industries and improves everyday life.



Our Offerings

"At Dotcom IoT, we offer comprehensive end-to-end solutions covering hardware, firmware, AI/ML, cloud, and app development. Our offerings are designed to help businesses transform ideas into scalable, innovative, and market-ready products."



Hardware Development

End-to-end electronic designs with precision, scalability, and compliance for innovative products.



Firmware Development

Low-power, optimized embedded software enabling seamless device performance and connectivity.



OEM & ODM Development

Complete product design-to-manufacturing support for faster market readiness.



BSP Development

Board Support Packages for smooth hardware–software integration and system bring-up.



AI/ML & Cloud Solution

Intelligent, connected ecosystems powered by data-driven insights and analytics.



Mobile App & Web Development

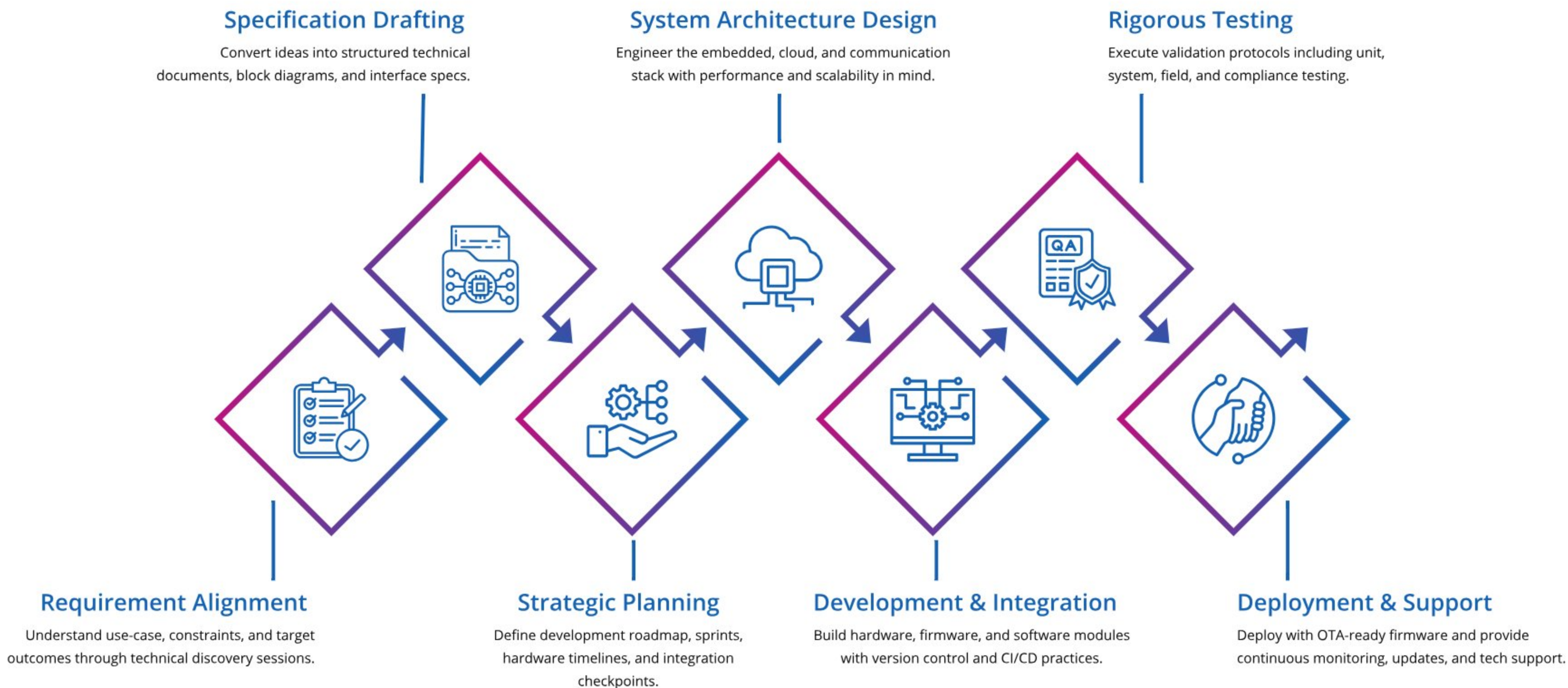
User-friendly apps and portals for real-time control, monitoring, and management.

Industry We Serve

"At Dotcom IoT, we bring intelligence and connectivity across industries. From healthcare and cleantech to mining and smart cities, our solutions drive efficiency, innovation, and a sustainable future by transforming the way businesses and communities operate."



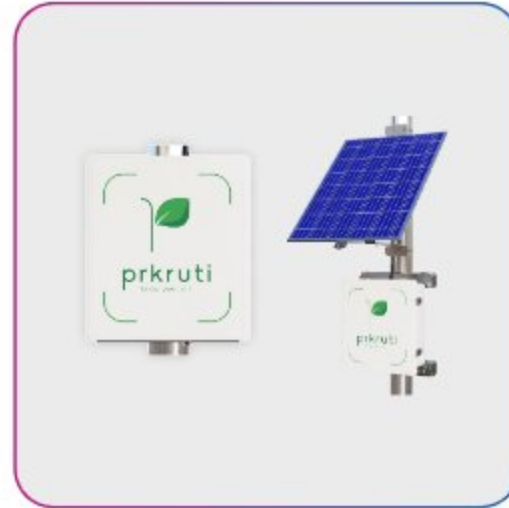
Development Hierarchy We Follow for Building Devices.



Product Success Story



S-Node



Prkruti Pro



Prkruti Lite



Moov BLE
Smart Alarm



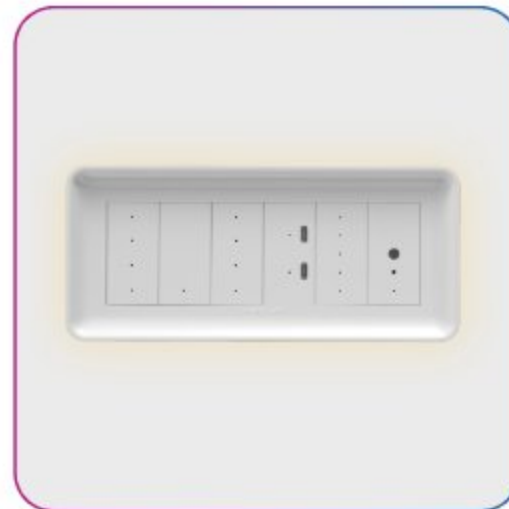
Ultrasonic
Water Meter



LoRaWAN
(CIU)



Breathlyzer



Smart Home
Switch Board



Hydroponic
Farm Controller



Bio Medical
Wearable Patch



NB-IoT BMS



Smart Seed
Planter

Product Success Story



IoT Flood
Monitoring System



Energy Monitoring
System



Smart Touch
Switches



Smart Latch
Defender



IoT QR Code
Reader



Smart Parking



6Lowpan Smart
Home Automation



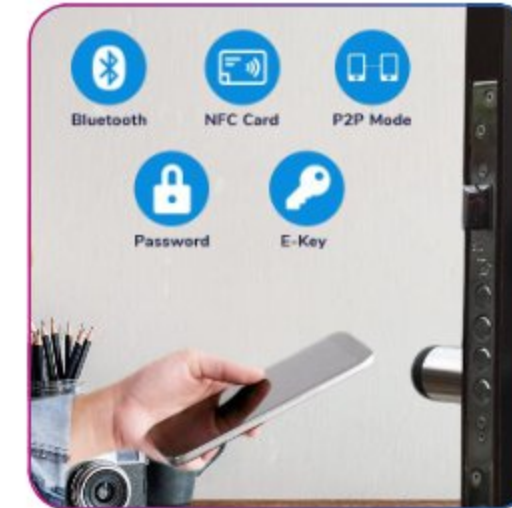
3D Hologram



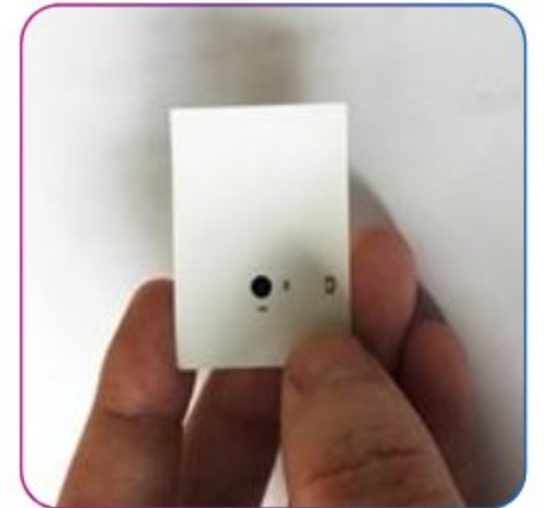
NFC Smart
Certificate



NFC Mini
Reader



Smart
Cylinder Lock



NFC LED Tag

S-Node

"PREDICTIVE MAINTENANCE AT A GLANCE!"

- S-Node is the Dotcom IoT's flagship product, which is designed for Industry 4.0 to make predictive maintenance easy without prior expertise in IoT and machine learning.
- S-Node is used to measure 3D vibration, acoustic emissions, gas emissions, RPM, and IR thermal.

Technology Used

- 32-bit ARM Cortex-M4, Wireless, Open Thread, MQTT, MEMS Sensors, OTA Updates.



Prkruti Pro

"OUTDOOR AIR QUALITY MONITOR"

- Prkruti Pro can track, monitor, and measure air pollutants like PM 1.0/2.5/10, CO, CO2, NO2, SO2, H2S, CH4, VOC, etc.
- Prkruti Pro is IoT driven air quality monitoring system for a sustainable environment in smart cities.

Technology Used

- Wireless/wired, WiFi, BLE, LoRa, Ethernet, NB-IoT, Sigfox, ARM Dual Cortex-A7, OTA Update



Prkruti Lite

"WORLD'S SMALLEST INDOOR AIR MONITOR"

- Prkruti Lite is the world's first and smallest personal air monitoring device for measuring indoor air quality.
- Prkruti Lite can measure VOCs, CO2, Temperature, Humidity, Air pressure, Noise, etc.

Technology Used

- Wireless/wired, WiFi, BLE, LoRa, Ethernet, NB-IoT, Sigfox, ARM Dual Cortex-A7, OTA Update



MOOV - BLE Smart Alarm

"MOOV FROM BED, ALARM OFF WHEN YOU'RE UP."

- MOOV is designed to revolutionize your mornings by blending smart alarm functionality with wellness tools that inspire a productive and balanced lifestyle.
- Premium tools like habit tracking, gratitude reminders, and vision boards make MOOV more than an alarm it's your personal growth partner.

Technology Used

- Arm® Cortex®-M4, Bluetooth Low Energy, Ultra-low power device, TouchSense, BLE 5.3, Zephyr RTOS , OTA updates.



Ultrasonic Water Meter

"EVERY DROP TRACKED, EVERY UNIT ACCOUNTED."

- Ultrasonic Water Meter is a smart device for precise water usage tracking. It supports LoRaWAN, Sigfox, NB-IoT, and NFC for flexible wireless connectivity.
- With an LCD display and WM-Bus stack, it enables real-time monitoring, remote configuration, and efficient smart water management.

Technology Used

- STM32L4, WM-Bus Stack, FreeRTOS, LoRaWAN, Sigfox, NB-IoT, NFC



LoRaWAN Customer Interface Unit

"EFFORTLESS WATER MANAGEMENT, RIGHT AT YOUR FINGERTIPS."

- The LoRaWAN Customer Interface Unit (CIU) is a wireless keypad device designed to communicate with an water meter via NFC or LoRa P2P.
- It allows users to conveniently read and configure various water meter parameters, offering improved control and visibility over water consumption.

Technology Used

- ARM cortex M4, M0+, STM32WL55JC, NFC, LoRaP2P, Embedded C



Breathalyzer

"PREDICTING THE HEALTH BY SENSING THE BREATH."

- Breathalyzer is the world's first, hand-held, accurate, and portable device that predicts health by using breath. The device can be used commercially as well as by health professionals.
- Breathalyzer can measure various parameters like VOC gases level, SPO2, HRM, Body temperature, motion, and environmental conditions.

Technology Used

- ARM Cortex-M4, MEMS sensors, Wireless/wired, BLE 5.2, OTA Update, Free RTOS.



Smart Home Switch Board

"EASY LIVING WITH YOUR SMART HOME"

- A smart home switch board is a board featuring an ESP32 master and STM32 slaves, designed for seamless automation in homes and industries.
- It is app and web controlled, and includes features like fan speed control, light dimming, RGB lighting, USB-C charging, and more-bringing smart convenience with a modern touch.

Technology Used

- ESP32-S3-WROOM-1: Xtensa LX7 Dual-Core (240MHz), STM32G030: Arm Cortex-M0+ (64Hz) MQTT, BLE, WiFi, HTTPS, Free RTOS, OTA Update.



Hydroponic Farm Controller

"AUTOMATE, MONITOR, AND GROW—
SMARTER THAN EVER."

- Hydroponic Farm Controller is a smart controller for managing nutrient dosing, lighting, ventilation, and irrigation pump in soilless farming.
- It monitors EC, pH, and temperature, with GUI-based control and remote access via LoRaWAN.

Technology Used

- ARM Cortex-M7, EC/pH/Temperature Sensors, RS485, FreeRTOS, OTA, LoRaWAN, AWS, ChirpStack, HMI Display.



Bio Medical Wearable Patch

"EASE OF HEALTH DIAGNOSIS IN A MINUTE"

- The Bio Medical wearable patch is a Bluetooth enabled, tiny device that can sense various body parameters, such as body temperature, SpO2, HRM, ECG and body posture.
- It will send the data to the Android application for further evolution.

Technology Used

- ARM Cortex -M4, Embedded C, BLE 5.3, ZephyrRTOS, OTA Update



NB-IoT BMS

"EVERYTHING CAN BE TRACK"

- Designed for applications where the ability to monitor battery levels is extremely difficult this rugged IP67-rated controller is operated from a simple partner app.
- Because the IOT Power Controller is itself battery-powered and needs to be able to operate for extended periods of time we benefit from the Nordic nRF9160 SiP's extremely low power consumption.

Technology Used

- AWS, ARM Cortex M33, Zephyr RTOS, Microsoft Azure, OTA update.



Smart Seed Planter

"LET'S REVOLUTIONIZED THE FARMING."

- The smart seed planter is the master device that can connect to the seed machine, by which the user can configure the seed-to-seed distance with respect to the tractor's speed during the planting.
- It also provides a graphical user interface (GUI) through which the user can configure additional parameters.

Technology Used

- ARM Cortex -M7, AWS, OTA Update, FreeRTOS, HMI Display



IoT Flood Monitoring System

"KEEP TRACKING DAM-WATER LEVEL AT A FINGERTIP"

- A flood monitoring system measures the level of the dam water, which can assist the municipality in maintaining water levels under challenging circumstances.
- Moreover, it can measure the metrological parameters such as Temperature, Humidity, Pressure, Wind speed & direction, and Rain density.

Technology Used

- MQTT, GSM 2G/3G, RS485 RTU, OTA updates, Weather Sensors, RADAR sensors



Energy Monitoring System

"MEASURE, MONITOR AND MAINTAIN"

- The energy monitoring system is IoT Enabled PLC, which can monitor the various parameters from the load such as active power, Reactive power, RMS voltage, RMS current, power factor, ambient temperature, and humidity.
- It will send the data to the AWS cloud for further monitoring.

Technology Used

- ARM Cortex A5, Wireless, Wi-Fi, cellular, AWS, OTA update, buildroot.



Smart Touch Switches

"SMART TOUCH SWITCHES FOR SMART HOME"

- Smart Touch Switches are IoT enable touch sensitivity switches with AWS IoT concavity, Which connect with the home appliances. It is replacement of Conventional switchboards.
- Android and ios application can facilitate as remote access appliances over the internet.

Technology Used

- AWS, Wi-Fi, CapSense, PSoC 4 MCU



Smart Latch Defender

"MODERNIZING THE SELF-STORAGE INDUSTRIES."

- Smart latch defender is LoRaWAN enabled locking system, which is specially designed for self-storage.
- It can facilitate 3 mode of operation such as Keypad mode, NFC card mode, NFC P2P mode.

Technology Used

- ARM Cortex-M4, TLS 1.2, LoRaWAN, FreeRTOS, AWS, MEMS Sensors



IoT QR Code Reader

"SMART ACCESS FOR SMART CITIZENS."

- IoT QR Code Reader is a one-step solution that permits EV charging station access via QR Code reading.
- IoT QR Code is also utilized as a generic QR Code access system for lifts, barricades, entrances, & exits.

Technology Used

- ARM Cortex-M4, MQTT, FreeRTOS, GPRS 4G LTE, Embedded C, Microsoft Azure



Smart Parking

"LORAWAN SMART PARKING NODES"

- Smart Parking is the end to end IOT Solution for the connected parking, with the Combination of the Wireless Nodes and gateway.
- The Solution provides the exact location of the available free parking slots on your fingertip.

Technology Used

- ARM Cortex M3, Ultrasonic, Magnetic Sensor, LoRaWAN, Embedded C, Ethernet, Wi-Fi, Multi-Channel Gateway



6LoWPAN Smart Home Automation

"SMART HOME APPLIANCES MAKE AN EASY LIFE"

- 6LoWPAN for connected home appliances
- Operate Security & Surveillance, Door Lock System, Smart Gardening, Light Maintenance System, Climate & AC Monitoring, Smart Home Appliances, Water Level Management, Smart Kitchen, and Smart Laundry

Technology Used

- ARM Cortex M4 SOC, TI-RTOS, Sub 1 GHz, Embedded C



3D Hologram

"DIAMOND IS VERY PRECIOUS ALTHOUGH
YOU CAN SEE IT IN REAL-TIME"

- 3D hologram offers an exclusive way to showcase your diamonds uniquely.
- 3D projections which represent the diamond characteristics superficially.
- The diamonds are floating in a 3D hologram free space and the user can see it in real time & relish the experience in the real world.



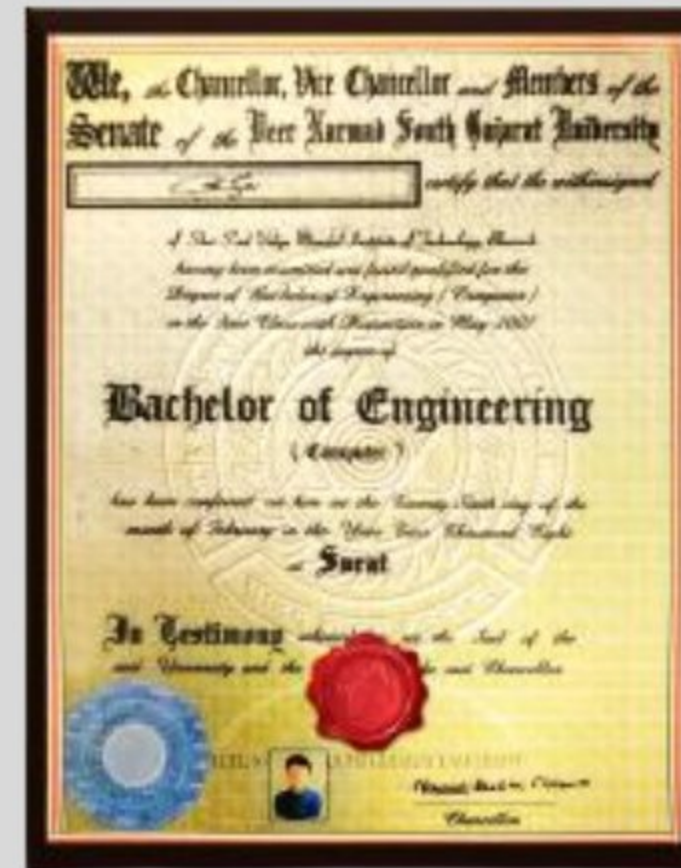
NFC Smart Certificate

"NOW, IT'S EASY TO AUTHENTICATE THE CERTIFICATES OR ANY DOCUMENTS WITH NFC"

- Ease of authenticity, for legal certificates and documents.
- Fast & secure data validation inside embedded chip.

Technology Used

- NFC, ISO 14443, ISO 15693



NFC Mini Reader

"SHORT RANGE NFC READER FOR READ/
WRITE INFORMATION"

- USB Connectivity
- Secure information injection through NFC
- Ease of Supply chain management
- Overcome the manual efforts

Technology Used

- NFC, ISO 14443, ISO 15693



Smart Cylinder lock

"USE YOUR SMARTPHONE TO LOCK & UNLOCK THE DOOR"

- Retrofit smart keyless cylinder lock, can replaceable with all type of existing lock mechanism
- NFC made possible to lock & unlock the door
- Users log history storage in-built
- Get a notification on smartphone

Technology Used

- NFC, Bluetooth, Password Protection, E-Key, Peer to Peer Mode



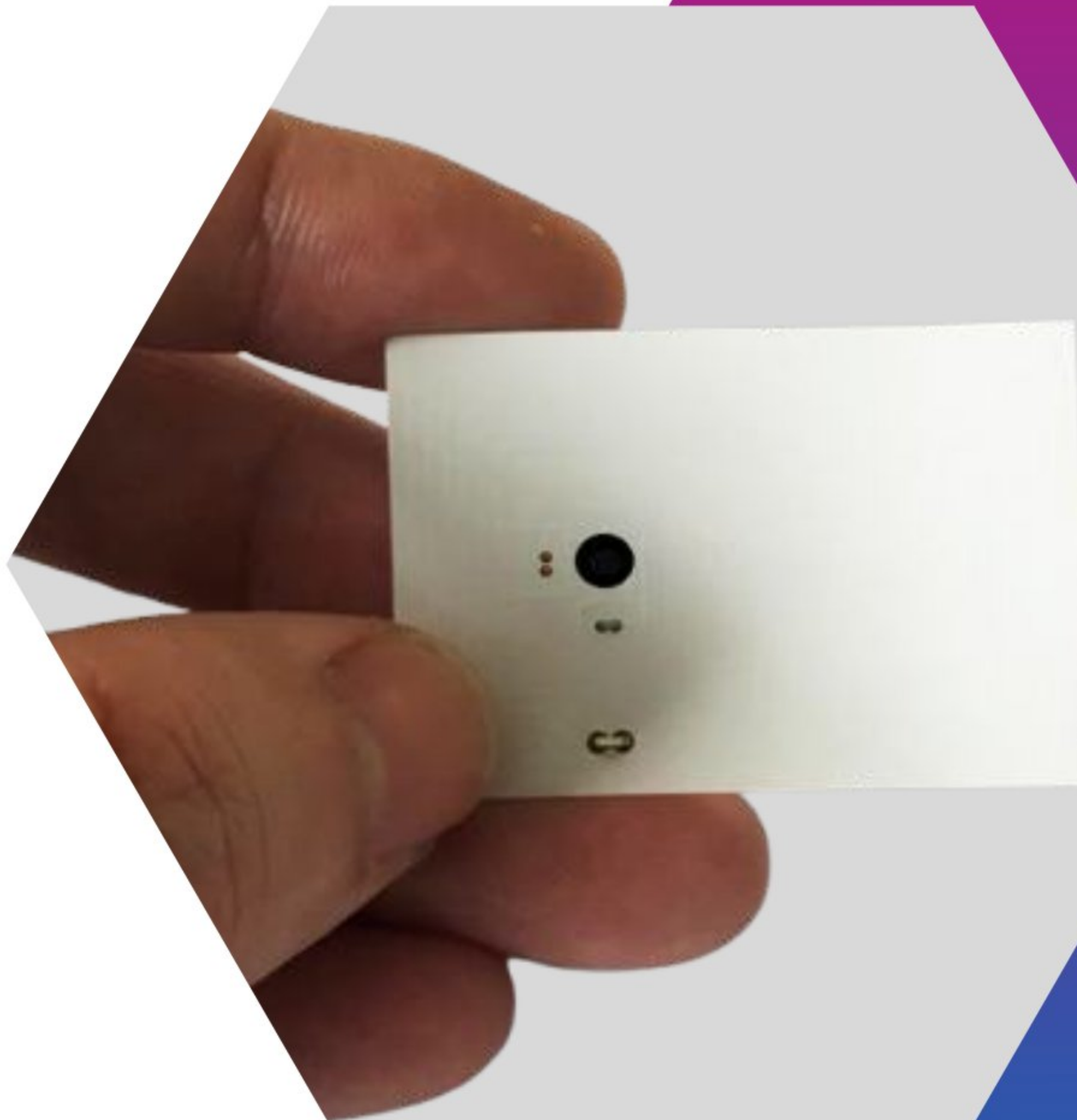
NFC LED Tag

"NOW IT'S EASY TO FIND SPECIFIC TAG
FROM BULK INVENTORY OF PACKETS
LAYING OF NFC READER"

- Patented LED technology in NFC Chip
- Support anti-collision for multi reading
- Ease of Inventory management
- Overcome manual efforts

Technology Used

- NFC, ISO 15693



Technology Partners



Technology Partners



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THANK YOU!

"Your trust fuels our innovation — together we Connect, Collaborate, and Grow, building technology that transforms dreams into reality."