NTS

Niraltek Solutions Pvt Ltd

COMPANY
PROFILE

2023
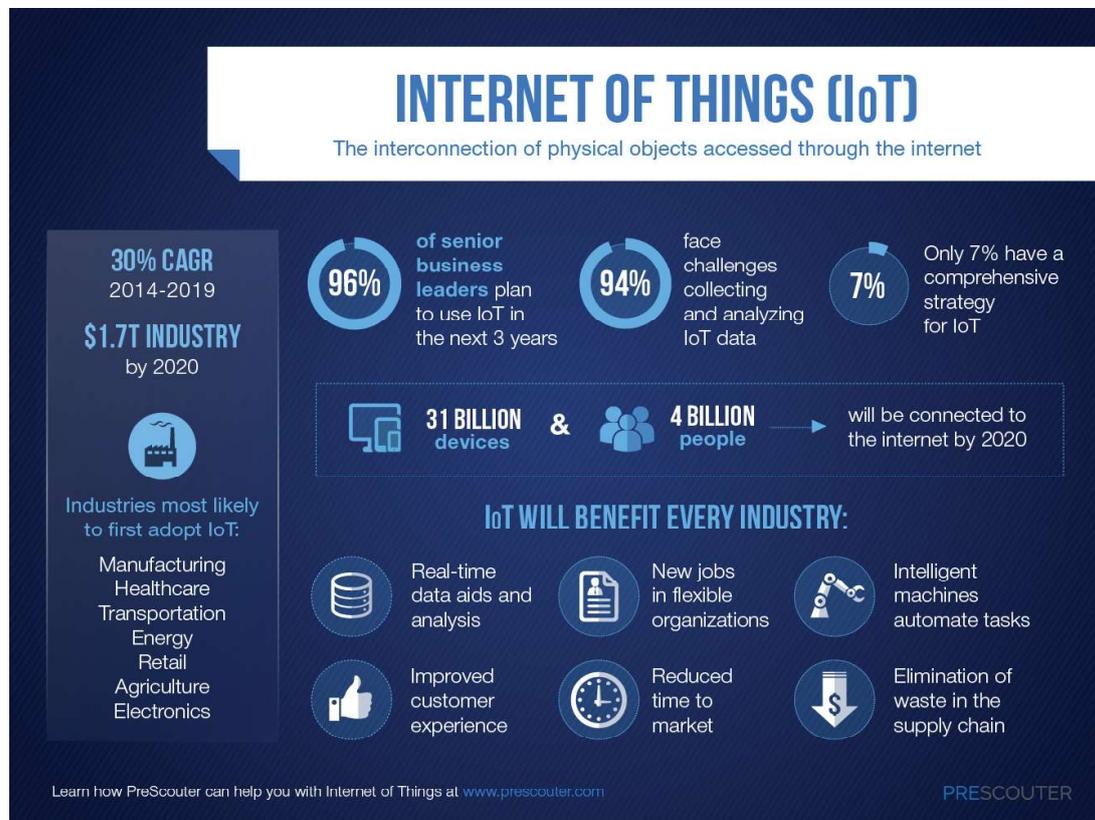
Trusted
Development
Partner
for Full Stack IOT
and .Net Solutions

Market Forecasting

We are living in an exciting,advanced and complex era of technology. Technology growth in the ever changing world is rapid and often overwhelming.Blockchain, Deep Learning, Neural Networks, Robotics, AR and AI are the technologies that will have intense business implications in the following five to ten years. Niraltek Solutions shall build the right technology solutions as the feature for the constant product improvements in an affordable pricing to thrive in the market.

In forthcoming years, evolution in technology should not only get us out of bed in the morning but also excite us enough to continue creating products / solutions

INTERNET OF THINGS (IoT)
The interconnection of physical objects accessed through the internet

30% CAGR
2014-2019

$1.7T INDUSTRY
by 2020

Industries most likely to first adopt IoT:

Manufacturing
Healthcare
Transportation
Energy
Retail
Agriculture
Electronics

96% of senior business leaders plan to use IoT in the next 3 years

94% face challenges collecting and analyzing IoT data

7% Only 7% have a comprehensive strategy for IoT

31 BILLION devices **&** **4 BILLION** people will be connected to the internet by 2020

IoT WILL BENEFIT EVERY INDUSTRY:

Real-time data aids and analysis

New jobs in flexible organizations

Intelligent machines automate tasks

Improved customer experience

Reduced time to market

Elimination of waste in the supply chain

Learn how PreScouter can help you with Internet of Things at www.prescouter.com

PRESCOUTER

COUNTRY-BY-COUNTRY E-COMMERCE GROWTH
Calculated By 2018 to 2023 E-Commerce Revenue

Canada $30

US $340

France $43

Germany $73

UK $99

Russia $30

China $672

S Korea $37

Japan $79

Brazil $19

in million

Our Company

Niraltek Solutions, founded and headquartered in Chennai, India is a young technology company working to meet the future challenges of digitalization by delivering smart products and services.

Niraltek delivers IoT consulting, design and development, product development and integration solutions to small and medium businesses and corporations across the world to help them innovate faster. Our solutions enable you to drive your digital transformation initiatives into a future-ready state by delivering robust controls, connectivity, and performance.

Our Vision

" To be part of the future digital world by delivering smart products and services to make human life convenient

Our Mission

" To value every customer, and deliver cost effective solutions that meet the highest quality standards
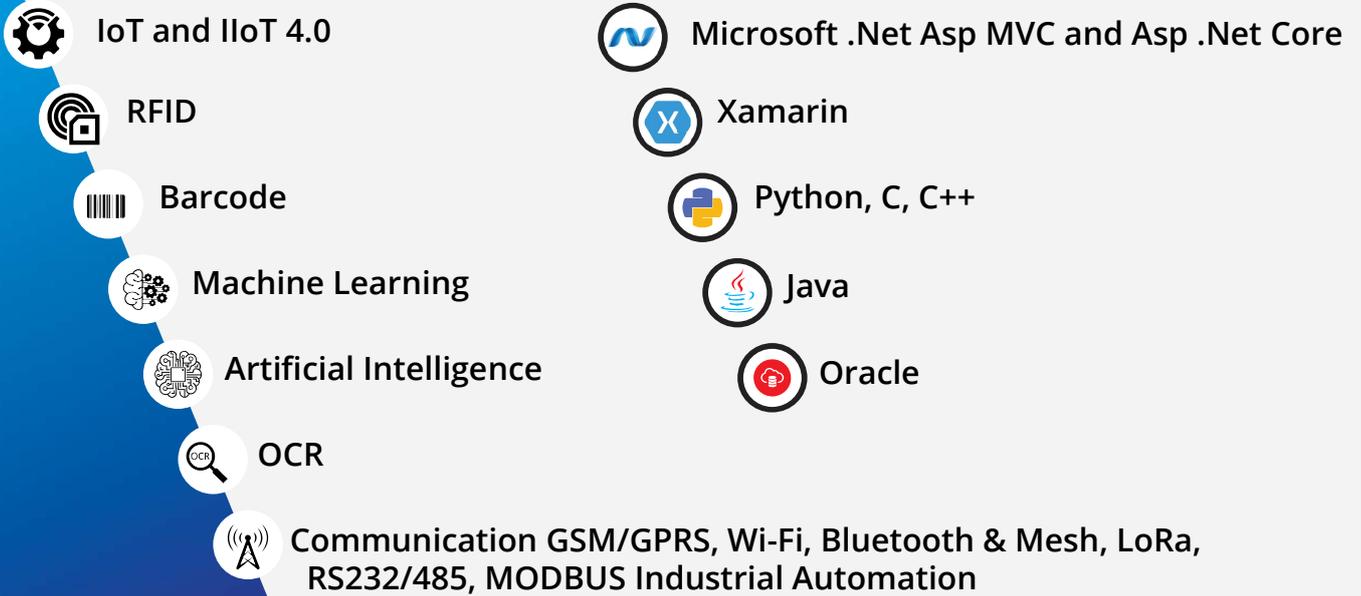
Our Core values

A Mutual respect

B Open mindedness

C Thrive Together

D Excite The End User

E Operational Excellence

Our Team

A real wealth of knowledge at Niraltek lies in a range of skilled and enthusiastic professionals with extensive experience in software development, product engineering and management, and proven project management skills.

Our team is young and dynamic, with a single goal: acquiring an irresistible place in the future world of digitalization.

4 Founders

IOT Engineers

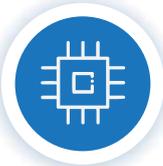Microsoft .Net developers

Started in **2021**

QA Testers

SAAS Products

Nopcommerce Partner

UI/UX designers

Technology & Software

- IoT and IIoT 4.0
- RFID
- Barcode
- Machine Learning
- Artificial Intelligence
- OCR
- Communication GSM/GPRS, Wi-Fi, Bluetooth & Mesh, LoRa, RS232/485, MODBUS Industrial Automation

- Microsoft .Net Asp MVC and Asp .Net Core
- Xamarin
- Python, C, C++
- Java
- Oracle

Our Industry focus

Automotive
Leverage breakthrough technologies to meet customer needs of comfort, convenience, performance and enhanced safety.

Logistics
Powering Your Every Move. Discover solutions that streamline operations while enhancing every customer experience.

Hi-Tech
Enabling digital transformation of leading high tech businesses, their products and customers.

ITES
Fueling Intelligent Decisions. Building innovative products that transform data into actionable insights.

Health Care
Create the foundation for the future with systems that deliver accountable, affordable and accessible healthcare.

Public Service
Partner with NTS to move to digitally smarter governance and improve the quality of life of citizens.

Manufacturing
Enabling manufacturers to build value chains that sense, learn and adapt.

Communication
Benefiting from Converging Value Chains. Navigating digital transformation is complex. Let us be your GPS.

Retail
Creating 'ME'aningful experiences to enhance customer journeys in today's digital world.

Entertainment
New media and mobile entertainment are revolutionizing the way people learn about the world.

Our Products

Parking Solution

Our RFID enabled Smart Parking Management Solution provides insights into vehicle identification, payment calculation, free-slot deduction and more. Furthermore, our solution allows you to optimize your parking management processes while eliminating human error.

OEE

Our IIOT-OEE analytics drive the digital transformation of industries. Our IIoT backed OEE solutions helps automate data collection, analysis and reporting to reduce manual efforts and operational expenses.

Material and Inventory Tracking

With an IoT-based inventory solution, manufacturers can look at their business holistically, track real-time data on goods, and identify bottlenecks early on. With RFID and IoT solutions, companies can reduce operational costs and better track warehouse inventory.

E-Commerce

We offer a multi-vendor platform to enhance and develop your e-commerce capabilities. Enabled with cross-selling, upselling, dropshipping capabilities, our customizable multi-vendor solution allows you to receive orders, invoice clients, notify shipping and upgrade your inventory all in a well-optimized process, saving human effort and costs.

Asset Tracking Management

Our RFID-powered automated management and tracking solution helps you achieve more control over your machineries and equipment, eliminating the need for human effort. Get real-time metrics by auditing from IoT devices to optimize the reliability, availability and usability of your assets.

Vansales Automation

Manage your Sa lesforce more effectively and increase profitability with Niraltek's Van sales automated solution. Our solution empowers field teams in effective route planning, asset tracking, invoicing, and payment collection, with real-time data and analytics.

Facility Management

Our integrated facility management solutions help you streamline and optimize all facility operations. Stay competitive by embracing our IoT-enabled facility management solutions to delegate human tasks, maintain assets, increase productivity of the workforce and enhance customer experience.

IoT Product Management Portal

DevsBot

As an entrepreneur in the rapidly evolving field of IoT, you understand the challenges of developing and maintaining IoT products. While creating innovative IoT devices is a daunting task in itself, keeping them functioning optimally as your business grows can be a headache. Fortunately, there is a solution to streamline this process and ensure your devices are performing as expected.

Top Features of DevsBot

- No-Code Development
- Over the Air Updates
- Monitor the Status

- User Management
- Location Management
- Actuator Controls

- Device Logs
- Reset Device Through Air
- Mobile Friendly Application

Enter DevsBot, the game-changing product that empowers IoT entrepreneurs to effortlessly monitor their devices and track performance metrics. With DevsBot, you can rest assured that your devices are working as intended, and that the data being transmitted is accurate. Additionally, because IoT devices are limited in memory, certain tasks must be offloaded to external applications. DevsBot facilitates this process, enabling you to manage your devices more efficiently and freeing up valuable resources for your business.

In short, DevsBot is the ultimate tool for IoT entrepreneurs, offering unparalleled functionality and convenience. Whether you're just starting out or are an established player in the field, DevsBot can help you take your IoT business to the next level.

Our Expertise in IOT & IIOT 4.0

Devices
• Raspberry PI, Arduino, ESP32, ESP8266, NRF52, STM32

Communication Protocols
• WiFi, BLE 5.0, ZigBee, LoRa, NB-IoT, Thread

Languages
• C++, Embedded C, Python, NodeJS

IOT Cloud Services
• AWS IOT Core, Azure IOT Hub, IBM Watson

IOT IDE
• Arduino, Visual Studio Code, Eclipse, PlatformIO, SEGGER Studio

Other IoT Knowledge Areas

• MQTT Data Protocol
• BLE Mesh Technology
• ThinkSpeak API
• Mongoose-OS

• Amazon FreeRTOS
• Node-Red
• Tuya
• Xamarin - Mobile Application Development for IOT Devices.

.Net Capabilities

• Microsoft .Net

• Asp.net, c#, .Net Framework 4 and above, Asp.net MVC, Asp.net Core, ADO.net, Entity Framework, WCF, WPF

• Ajax, Jquery, Java script, html5, Bootstrap

• Web API - Json, REST, XML

• Database - MS Sql, Mysql, Postgresql, SQlite, Oracle, Mongo

• AWS, Azure, Devops, Docker, GIT

• Xamarin Cross Platform for Android / iOS / Windows

Microsoft® .NET 6

Our Services & Solutions

ENABLING INTELLIGENT CONNECTIVITY

In this challenging digital world, IoT initiatives offer numerous opportunities for organizations to adapt and remain resilient in a technology-driven environment. As a preferred IoT solutions partner, we help you reinvent your digital business model by enabling smarter automations more quickly.

IoT Solutions & Consulting

Our team facilitates your transition into an IoT-enabled business by assessing current capabilities within your organization, choosing the right infrastructure, mapping the value chain and creating roadmaps.

AI & ML Based Solutions

Using our machine learning and artificial intelligence expertise, you can enhance the performance of forecasting with predictive analytics to build robust and scalable solutions

Cloud Architecture

A cloud IoT platform should be capable of monitoring IoT endpoints, analyzing streams of data at the edge, and facilitating app development and deployment.

Condition Monitoring Services

Understanding the current market demands, our IoT solutions help you predict potential machine failures, undesirable behavior in machinery tools and devices, and uncover trends in machine data using our remote monitoring services.

IoT Ecosystems

Our IoT services and cutting-edge IoT apps are aimed at delivering a 360˚ customer experience.

Field Data Retrieval

Explore our IoT-enabled field data solution for gaining valuable access to data at your fingertips nearly anywhere and anytime by leveraging connected devices and field service apps.
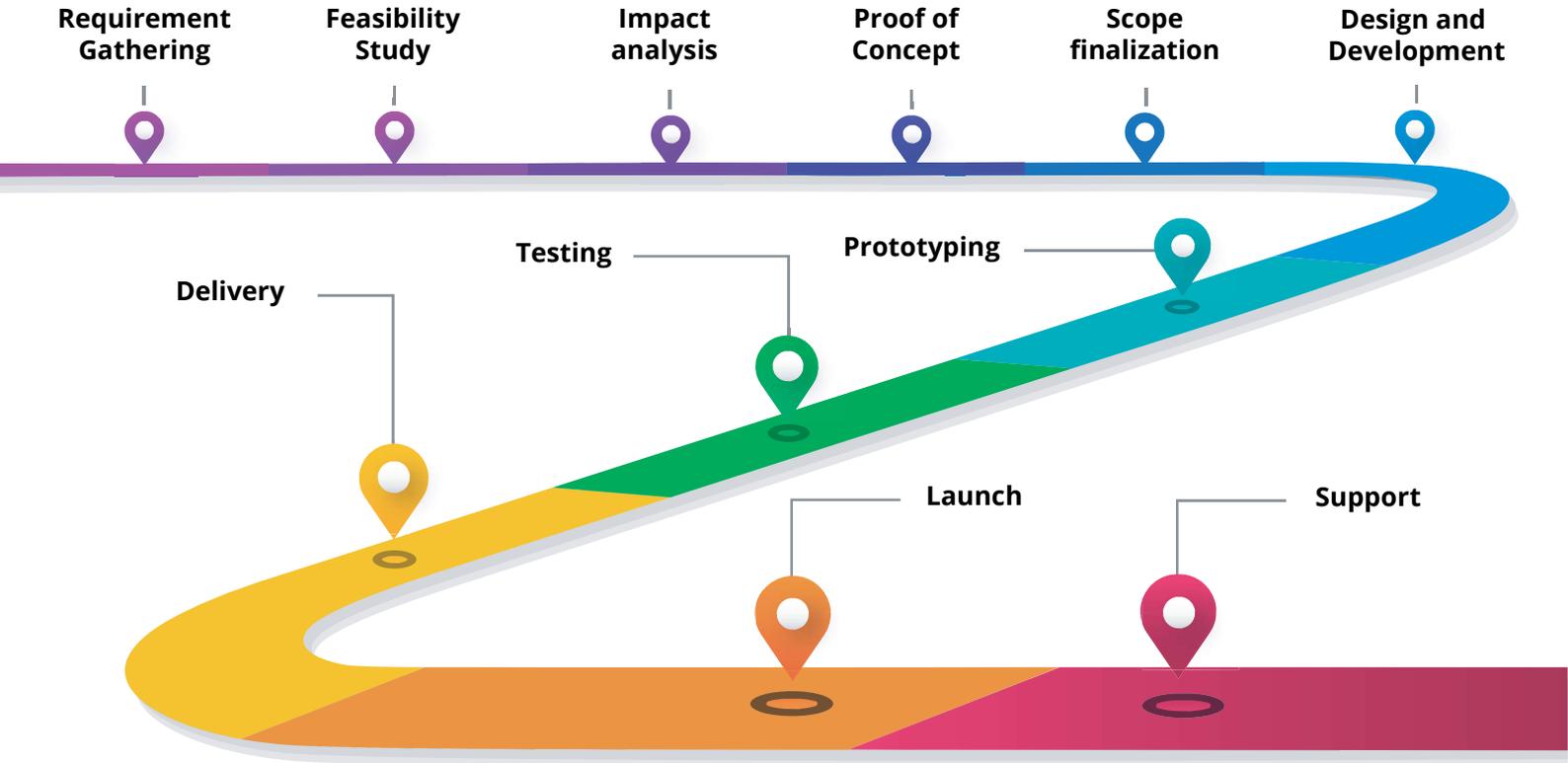
Self Aware Products

Our IoT solutions strive to facilitate seamless collaboration between people and machines at every stage of your Industry 4.0 journey. Thus we help drive your Industry 4.0 transformations by enabling smart factories for a future powered by intelligent machines.

Our Approach

Requirement Gathering

Feasibility Study

Impact analysis

Proof of Concept

Scope finalization

Design and Development

Prototyping

Testing

Delivery

Launch

Support

Our Clients

MAGNA

HAP
Hatsun Agro Product Limited

Fareast Mercantile Co. Ltd - Nigeria
Forging partnerships built on trust and commitment

Madras Export Processing Zone
MEPZ Special Economic Zone
मेप्स विशेष आर्थिक क्षेत्र

Aachi
The Mother of Good Taste

Super Store
SARAVANA STORES
Super Store of Shopping World

AP ELECTRONICS

PARK
smart parking

ADVANTIS

SEYAL TECHNOLOGIES

VIZODO
Technical Talent on Demand

ALAGAPPA UNIVERSITY
EXCELLENCE IN ACTION

TECHNOXI
IT - OUR GAME

NIRALTEK SOLUTIONS:

A Reliable Partner for the Development of Full Stack IoT & Dot Net Solutions

Amal Raj
Head of IoT

Durai Murugan
Founder

The Internet of Things (IoT) is gaining prominence worldwide owing to its ability to connect devices and transfer data seamlessly while enabling better device-to-device communication. It is not just allowing enterprises to enhance operational efficiency, but also reduce downtime and gain a competitive advantage in the market.

One company that is spear heading the IoT revolution by offering robust IoT-enabled products, solutions, and services is Niraltek Solutions. Niraltek provides IoT consulting, design, prototyping, and development. It also offers product development and integration solutions to small and medium businesses and corporations across the world to help them innovate faster. Apart from IoT products and solutions, the company also offers dot net development and e-Commerce development.

In an interview with CIO Insider Magazine, Durai Murugan, Founder, and Amal Raj, Head of IoT, Niraltek Solutions, share their insights on the company's value proposition and how they are contributing toward a connected future.

How have you established yourself in the IoT market?

Durai Murugan: Niraltek Solutions, a Start-up was founded by three people who have 20+ years of experience in the IT field. We truly understand the value of IoT and the impact it's going to make in the next 20 Years. We have highly talented resources in all the areas of IoT development to serve the customer with 100 percent satisfaction. We always align with the latest technologies and thus we provide IoT development merged with Machine Learning, Artificial Intelligence whenever it is required. We never compromise on quality neither the hardware design nor the software development. Our ultimate goal is to make our customer vision into reality.

At Niraltek, we firmly believe no one solution fits all. This is why our solutions are tailored to customer-specific business needs. Backed by an experienced team of product engineers and domain experts, we deliver innovative, reliable, and scalable solutions that perfectly align with your strategic objectives. Our solutions enable you to drive digital transformation initiatives into a future-ready state by delivering robust controls, connectivity, and performance.

Could you elaborate on Niraltek's Value propositions?

Durai Murugan: At this time, IOT faces many challenges since it is in the Beginner Era. Hence customers find many difficulties in choosing the right solution beginning from choosing the IoT Board to Cloud Integration.

Since we already set up our expertise in the IoT Market we help customers to choose the right solutions. I guess there are our value propositions established in regard to service sectors of IoT and IIOT Industries.

Another factor that influences our value proposition is our unique niche product IoT Device Management which is going to hit the market very soon.

As an expert IoT Products and Solutions company, we understand that product development is a challenge that requires a different approach. Our proven processes, experienced teams, and industry orientation give us the extra edge to consistently keep up with

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the evolving requirements of new product development.

In the IoT product engineering phase, Niraltek transforms design and development by making it productive, efficient, and intelligent while emphasizing product quality by utilizing advanced hardware, cloud, and IT services. Our IIOT-OEE analytics drive the digital transformation of industries. Our IIoT-backed OEE solutions help automate data collection, analysis, and reporting to reduce manual efforts and operational expenses.

Our RFID-enabled Smart Parking Management Solution provides insights into vehicle identification, payment calculation, free-slot deduction, and more. Furthermore, our solution allows you to optimize your parking management processes while eliminating human error.

With an IoT-based inventory solution, manufacturers can look at their business holistically, track real-time data on goods, and identify bottlenecks early on. With RFID and IoT solutions, companies can reduce operational costs and better track warehouse inventory.

Can you please highlight some of the key products and services you offer?

Amal Raj: As IoT grows, the number of connected devices will expand exponentially. And the next major challenge is to manage the devices. We already found a solution and created a unique product called DevsBot, an IoT Device Management Solution.

It has the leverage of hosting it on your own server. You are able to add n number of devices and can monitor and control remotely. You can update the firmware through the Over the Air feature if your device supports it.

We offer a multi-vendor platform to enhance and develop e-Commerce capabilities. Enabled with cross-selling, upselling, and dropshipping capabilities, our customizable multi-vendor solution allows you to receive orders, invoice clients, notify shipping and upgrade inventory all in a well-optimized process, saving human effort and costs.

Our RFID-powered IIoT 4.0 machinery management solution helps to achieve more control over your machinery and equipment, eliminating the need for human effort. Get real-time metrics by auditing from IoT devices to optimize the reliability, availability, and usability of your assets.

Our integrated facility management solutions help to streamline and optimize all facility operations. Stay competitive by embracing our IoT-enabled facility management solutions to delegate human tasks, maintain assets, increase the productivity of the workforce and enhance customer experience.

What are the major aspects that set you apart from the competition?

Amal Raj: According to me, in regard to the IoT Market we should not think of anyone as a competitor rather the IoT ecosystem requires many providers to work together for better products outcome. We can say our development methodology will be the major aspect. We guide our prospects in the right direction to make their dream into reality.

The team at Niraltek is a diverse group of knowledgeable and passionate individuals with years of experience in software development, product engineering and management, and solid project management abilities. Our staff is young and energetic, and we have one clear objective: to secure a prominent position in the rapidly-digitizing world of the future.

Our unique approach is another aspect that gives us a competitive edge. In the development process, a proper framework is adopted that guides the software development process from requirement gathering to delivery, launch, and support.

What is the roadmap for Niraltek solutions in the future, and what advancements can we anticipate in the IoT space?

Amal Raj: Our vision is to be part of the future digital world by delivering smart products and services to make human life convenient.

In the next five years, we are working toward becoming the top ten IIoT Service Providers in India. We also want to be a complete product-developing company. So we are expecting to roll out a few revolutionary products in the next two years.

IoT space has just started and it opens a huge market in every sector. The device along with the data plays a major role in improving production in some sectors, devices along with the controls will be helpful in safety aspects, and devices along with AI will be helpful in energy consumption. I can say the use cases are infinite and they cannot be predicted now. Like everyone, we are also keen on the features of IoT.

NTS
Niraltek Solutions Pvt Ltd

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