WE ARE SPERA

#Turning Imagination into Innovation
#Redefining What's Possible

Inside the Pages

Who We Are?

"Spera is a global catalyst, turning imagination into innovation with AI, robotics, and advanced technology to redefine the future."

Our Vision

Turning imagination into innovation, redefining what's possible. We envision a world where technology enhances human intelligence, seamlessly integrating AI, robotics, and advanced solutions to transform everyday experiences and push the boundaries of what's achievable.

Our Mission

Driven by the pursuit of innovation, we create groundbreaking technology that turns bold ideas into reality. By engineering intelligent solutions that revolutionize how we live, work, and connect, we are shaping the future today—where the impossible becomes possible.

Core Values

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Innovation

Pushing the boundaries of what's possible.

Hope

Providing hope to improve lives, societies, and businesses.

Sustainability

Building solutions with lasting positive impact on the world.

User-Centric Design

Creating with the end-user in mind, ensuring intuitive

Message from the Founding Visionary

At Spera, we don't just build technology, **we bring visions to life.** Our journey is fueled by **passion, innovation, and a relentless pursuit of excellence.** We believe in creating intelligent solutions that **not only enhance efficiency but also make a real impact** on people's lives.

Technology should **work with us, for us, and evolve alongside us.** That's the philosophy behind Spera Robotics a fusion of AI, engineering, and human intuition designed to revolutionize industries. Whether it's **automation, assistance, or beyond, our robots are built to adapt, learn, and redefine possibilities.**

But at the core of everything we do is our **people.** We are a team of **dreamers, creators, and problem solvers** who believe in pushing boundaries and challenging the status quo. Every innovation we bring to life is a testament to the power of collaboration and a shared vision for the future. While we strive to be a beacon of technological excellence, we are also committed to giving back, to our communities, to nature, and to the voiceless who need our help. Our work isn't just about progress; it's about purpose.

At Spera, we are not just shaping the future, we are creating it, one breakthrough at a time.

Sahan Yapa

Founder & CEO, Spera Private Limited

Where Are We?
The Core Footprints from
Ideate to Impact

2015

Incorporated the company
as SperaLabs (PVT) Ltd

2019

Provided automation &
running system to biggest
artificial farm in SriLanka

2011

Spera Soft Started
as an Idea

2012

Created first Commercial
Software

2017

Hired the first set of
employees

2022

Spera Labs Global
Expansion at Dubai

2024

Corporate office launch at
heart of colombo

2021

Facilitate Remote work due
to pandemic

2023

Created first humanoid
robot built from scratch

Why are We? The Spark that Fuels Our Existance

The Question That Started It All

The creative mind behind Spera had long dreamed of cloning humans not just replicating their appearance but capturing their intelligence, emotions, and abilities. While others played with toys, he dreamed of pioneering a new frontier. What began as a child's fascination soon transformed into an unshakable mission. As the dream matured, so did the realization: why clone humans when we can create them? Why limit ourselves to replication when we can pioneer a new frontier, one where robotics and AI bridge the gap between imagination and existence?

By 2015, this lifelong commitment took its first breath of reality.
The journey of Spera In-house Innovation began.

01. Spera Robotics

01. Spera Humnoid Robots as a Life Companion

In 2018, we set out to build something extraordinary: a humanoid robot designed to combat mental illness. A companion that understands not just the words, but your moods, your struggles, your silent cries for help. A robot that doesn't just assist but cares.

These companion robots are designed to support individuals facing mental health challenges by seamlessly integrating into their daily lives. From assisting with routine tasks like moving objects to intelligently monitoring behavioral patterns, these robots serve as more than just helpers—they become attentive companions. Equipped with advanced AI and Natural Language Processing (NLP), they can detect subtle signs of distress, depression, or emotional shifts. When loneliness or anxiety takes hold, the robot steps in—engaging, comforting, and guiding the user out of negative mental states. More than technology, it's a lifeline for those who battle in silence.

02. Spera Service Bots for Industries

The Spera Service Robots are engineered to seamlessly integrate into diverse industries, redefining the way humans and technology collaborate. From education and healthcare to hospitality and beyond, they are designed to adapt, learn, and enhance efficiency across various sectors. Whether it's streamlining student enrollment, assisting medical staff with patient care, delivering medication, or elevating hotel services with personalized guest interactions, these robots effortlessly adapt to their environments.

Mobility & Navigation

Vision-based pathfinding, adjusting routes like humans, with object and location detection **(no GPS required).**

Industry-Specific AI & Customization

Adaptable intelligence with cloud-supported task assignment and workload management.

Smart Interaction

Natural speech capabilities and machine learning to understand, respond, and improve over time.

Arm Movements & Object Handling

Performs physical tasks efficiently, from carrying objects to assisting in operations.

Offline Functionality

Runs AI without internet, ensuring continuous operation in any environment.

Smart Updaes

Receives daily improvements and allows remote customization via the cloud.

Every facet of our robots, from the intricate hardware to the sophisticated software, is meticulously crafted in - house. This end to end control allows us to achieve unparalleled precision and customization, setting a new benchmark in the industry.

Hardware Excellence

Our electronic circuit boards, including power distribution modules, motor control systems, and UART bus interfaces, are born from our engineers' ingenuity. We fabricate these components in-house or source them from trusted partners in China, ensuring optimal efficiency. Our advanced fabrication process utilizes high-precision 3D printing, CNC machining, and laser cutting, enabling us to create complex mechanical components with extraordinary accuracy.

Software and Processing Power

At the heart of our robots lies a robust computational core powered by industry leading processors from Intel, NVIDIA, and Qualcomm, seamlessly integrated with the Robot Operating System (ROS). Advanced microcontrollers like STM, ESP, and Raspberry Pi enable real time control and adaptability. Our state of the art R&D lab, equipped with cutting edge controllers and technologies, guarantees the highest standards of quality. We've also pioneered advanced actuator models, redefining movement and dexterity. Every component is designed for perfect harmony, resulting in a robotics system that embodies innovation, efficiency, and intelligence.

From Wheels to Bipedal Motion

While our current models utilize wheeled locomotion, our research into biped movement is progressing rapidly. We aim to introduce humanoid robots capable of natural walking by the end of next year, pushing the boundaries of robotic mobility.

Scalable Models

Our robots are designed for versatility, available in two scalable models: a full human sized version for comprehensive tasks and a compact, friendly, cute design for more intimate environments.

03. A Digital Soul in a Physical Form

Imagine a world where technology doesn't just imitate life—it embodies it. We are on the verge of creating something revolutionary: a robotic head that doesn't just look like a person but thinks, speaks, and reacts just like them.

Our innovation begins with an advanced facial scan, meticulously mapping every detail of a person's features. This data is then used to create a hyper-realistic synthetic face, crafted from specially developed materials that move and feel incredibly lifelike.

Beneath this human-like surface, precision-engineered mechanics bring the face to life—eyes that track and blink, lips that shape words, and micro-expressions that mirror real emotions. But a face alone isn't enough.

At the core lies a powerful AI, designed to not only process conversations but to learn and respond just like the person it represents. It understands context, picks up speech patterns, and evolves with interactions. And with voice cloning technology, it doesn't just talk—it speaks like them.

This isn't about imitation. It's about preserving presence in ways never before imagined.

With all core technologies in place and final assembly 50% complete, we are just six months away from unveiling a robotic head that can speak, react, and engage in real-time conversations.

02. Enhancing Emotional Connections, Bark Vision

For centuries, dogs have been our most loyal companions—offering love, protection, and an unspoken understanding. But what if we could finally understand them just as they understand us?

Spera introduces Bark Vision, a groundbreaking wearable device designed to bridge the communication gap between dogs and their owners, ensuring health, safety, and an enriched understanding of our four-legged friends.

"At its core, Bark Vision is an advanced wearable device that combines cutting-edge sensors, AI-powered insights, and a user-friendly mobile application."

Using AI-powered emotion detection, Bark Vision interprets barks, whines, and movements, translating them into real-time insights. Is your dog anxious, excited, or hungry? Now, you'll know. And for the first time, you can respond, deepening the connection beyond simple commands.

But Bark Vision goes even further. It learns your dog's unique behaviors, mapping their personality and habits. In the future, should your beloved pet pass, And for those who can't bear the thought of losing their beloved pet, Bark Vision will enable a robotic replica—a digital twin that preserves your dog's personality, movements, and quirks through machine learning, ensuring that a part of them always stays with you.

The pet tech market is experiencing remarkable growth. Bark Vision is poised to lead this evolution by offering advanced features that resonate with the market's trajectory. Our commitment to innovation is underscored by patent applications in 7 countries and upcoming trials with 50 dogs in Sri Lanka this year.

A Self-Sustaining Innovation Engine

At Spera, we cultivate a **unique, self-sustaining ecosystem** where innovation thrives. Our growth is fueled by the very partnerships we create, with revenue from advanced collaborations directly powering groundbreaking research in **Robotics, AI, Emerging Technologies, and Pet Tech.** Free from the constraints of external funding, this ecosystem allows us to explore bold, visionary ideas with full autonomy. By harmonizing profitability with technological advancement, we achieve balanced growth, creating a continuous cycle of innovation. This approach ensures we stay at the forefront, turning future possibilities into present realities.

> " We Don't Follow Trends—We Set Them.
> Our Innovation Engine: Continuous,
> Independent, and Balanced. "

Revenue

Innovation
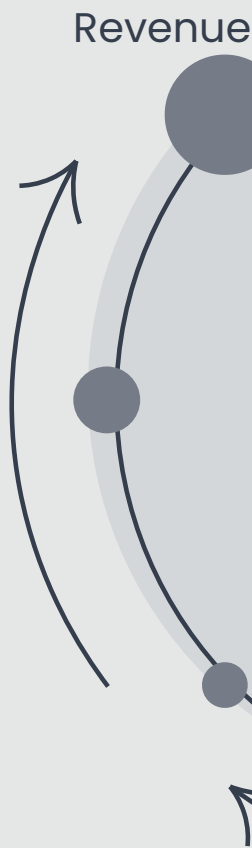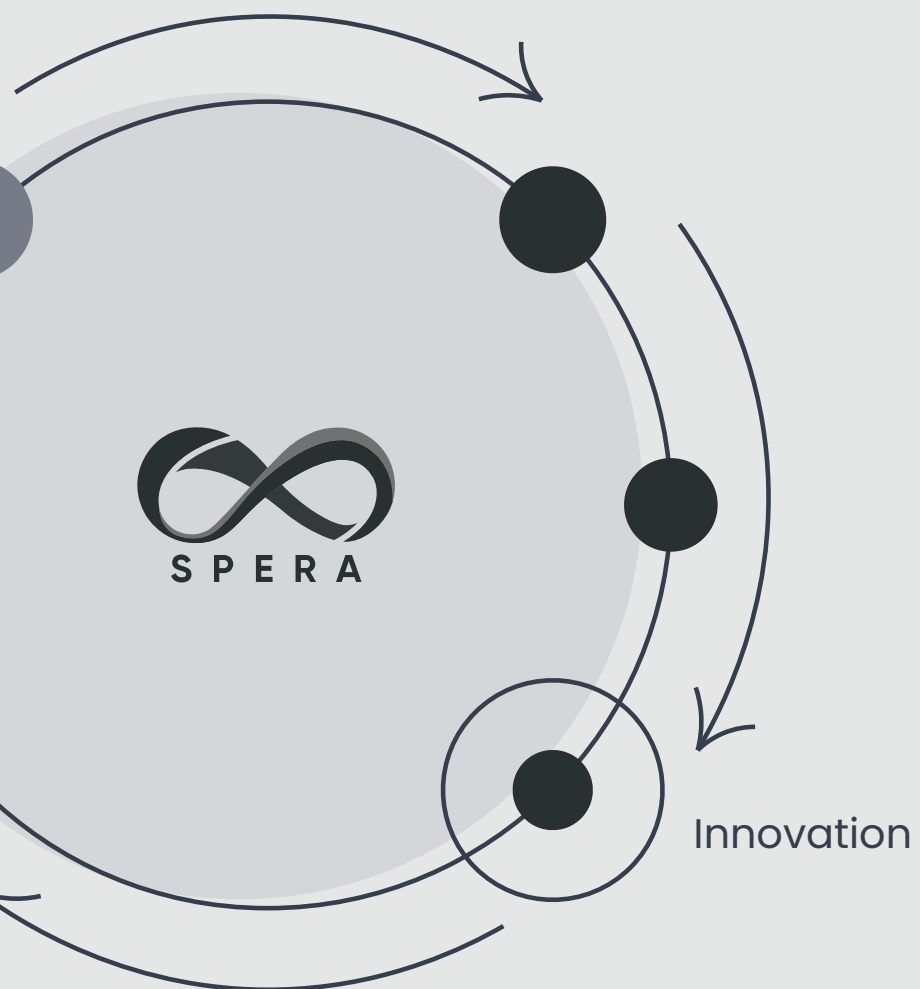
Our Core Collaborations

## 01. Next-Generation Financial Market Solution

Problem: Traditional trading platforms lacked integrated AI and blockchain capabilities for optimized trading and passive income generation.

Solution: One of our flagship products , a next-generation financial ecosystem that addresses these challenges by seamlessly integrating advanced AI-driven trading tools with blockchain-powered data farming. This platform empowers users to:

- **Automate and Optimize Trading:** Implement personalized trading parameters, leverage real-time market analysis, and execute trades with minimal intervention. The system even autonomously closes profitable positions.

- **Access NFT-Driven Data Farming:** Invest in NFTs that grant access to AI-powered algorithmic trading systems, transforming digital assets into engines for passive income generation.

- **Benefit from Integrated Technology:** Experience a unified platform that combines high-frequency trading with blockchain innovation, creating a dynamic and efficient investment environment.

Impact

- 6,000+ active global users across Japan, the US, and Australia.

- Enhanced trading efficiency and profitability.

- Unique passive income via NFTs.

- Redefined financial market technology.
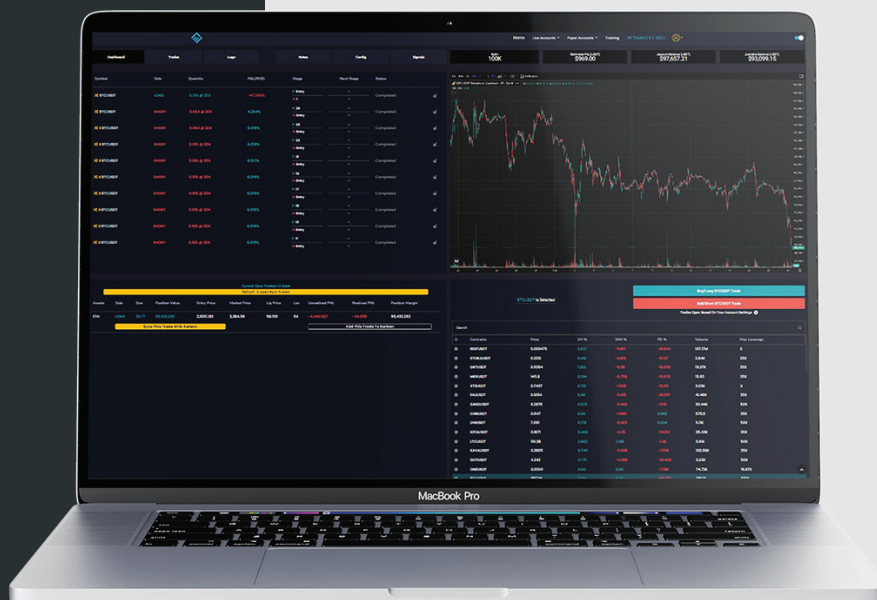
02. AI-Powered Healthcare Management

Problem: Overburdened medical professionals struggle with inefficient patient management and limited access to comprehensive healthcare services.

Solution: We developed an integrated AI-driven healthcare system that streamlines patient management and a location-based health and wellness app, offering:

- **AI-Driven Patient Management:** Automated tracking of visits, prescriptions, and treatment plans, providing data-driven insights for optimized decision-making.

- **Location-Based Health and Wellness App:** Facilitates clinic visits, home visits, video consultations, and doorstep delivery of medicines, health gadgets, and lab tests.

Impact

- Reduced doctor workload.

- Improved patient care.

- Easier access to healthcare.

- Increased patient convenience.

- Data-driven medical decisions.
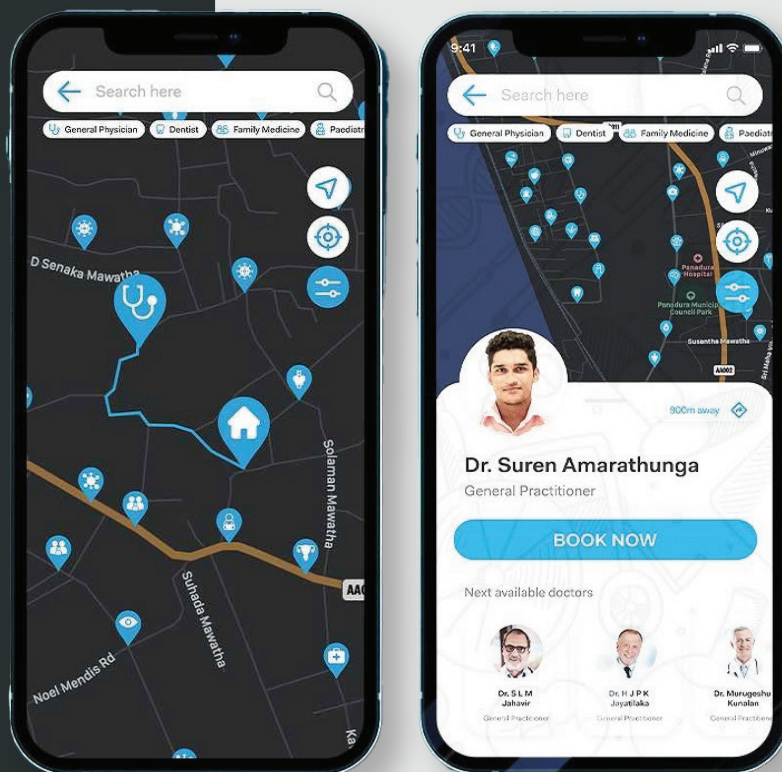
## 03. Empowering Businesses with an Easy-to-Use Website Builder

Problem: Many businesses recognize the need for a professional online presence but struggle with the complexity and cost of building and maintaining a website. Without the expertise or resources to navigate advanced web design, they often fall behind in a highly competitive digital landscape.

Solution: We developed an intuitive, all-in-one website builder tailored specifically for businesses of all types. Our platform empowers business owners and managers to create a professional online presence with ease, regardless of their technical skills.

- **Tailored Templates:** A selection of pre-designed templates, optimized for various industries, ensuring every website looks polished and professional.

- **Customization Capabilities:** User-friendly tools that allow for effortless customization, from branding elements to layout adjustments, enabling businesses to create a visually stunning and personalized website.

- **Effortless Online Presence:** Our platform simplifies the website creation process, allowing businesses to quickly establish a professional digital footprint with minimal effort.

Impact

250+ businesses have leveraged our platform to boost their online presence, ensuring they stand out in a crowded marketplace.

Simplified Website Management making business owners easily update content, manage operations, and track performance without needing specialized web development knowledge.
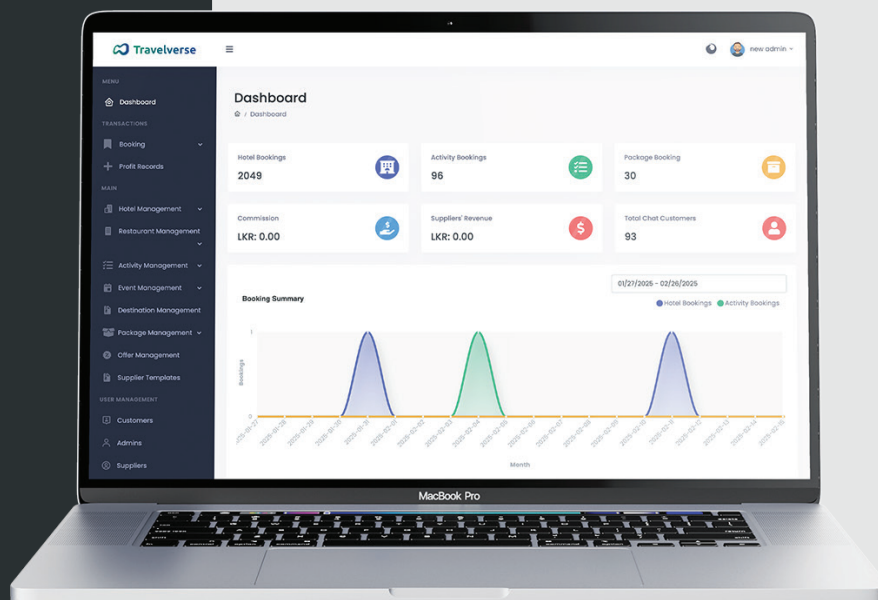
04. Engaged Reader Networking Platform

Problem: Lack meaningful interactive engagement for readers.

Solution: We developed an interactive platform designed to cultivate active literary engagement, featuring:

- **Guided Reading & Research:** Encourages participants to select, read, and research books, sharing insights with the community.

- **Interactive Community Features:** User authentication, personalized dashboards, profile management, bookshelf functionality, global member search, leaderboards, self-paced training, group discussions, and customizable settings.

- **Collaborative Learning Environment:** Facilitates knowledge sharing and intellectual discourse through group discussions and community-driven activities.

Impact

- **1500+ members across 3 countries** actively engage.

- Readers become active learners.

- Deep literary engagement.
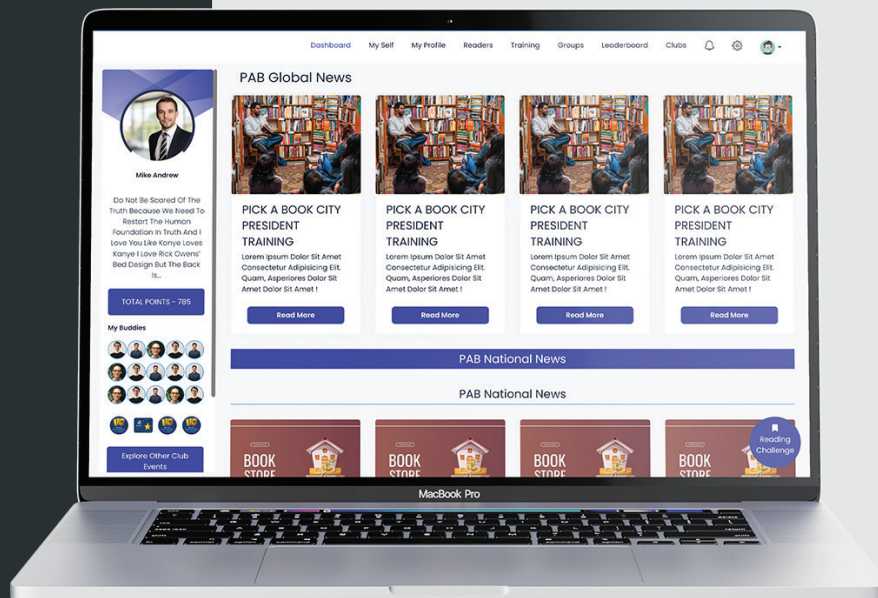
05. Artificial Vertical Farm Automation

Problem: Traditional farming is unsustainable due to land and resource limits.

Solution: Growing crops in an artificially created a fully controlled environment instead of growing in soil. This hydroponic environment is inside a weather-sealed vertical farming house. No natural requirements coming to the crops from natural resources. All we are providing them artificially(Sun-

- Automated LED panels to provide sunlight

- Nutritions/fertilizers mixed with water and running through plants with automated draining system

- Carbon dioxide filled cylinders with an automated valve system

- Air conditioners to control farm temperature

- Steamers to generate and control humidity

Impact

- Reduced resource use.

- Increased crop yield.

- Localized food potential.

What Our Partners Say About Us

We pride ourselves on building strong, collaborative partnerships. Here's a glimpse into the impact we have, directly from one of our valued partners

How Are We?
The Sync Behind the Action

Our People

"Believe you can and you're halfway there." – Theodore Roosevelt
That's why, we value a positive attitude above all else. Good energy. A can do mindset. These qualities shape the foundation of our team and drive everything we do. At Spera, we don't just look for talent, we seek out individuals who bring passion, resilience, and a spirit of innovation. And we already have them with us, the best team. With 35+ high performing individuals who are great at what they do and even better at working together. we're shaping the future of technology.

Our Mains

We cultivate an environment where people naturally take time to help others succeed, where feedback flows freely, and where new ideas are always welcome. Meet the catalysts shaping Spera's path to greatness. They lead by inspiring, empowering, and challenging us to reach new levels of success.

Thrishala Wickramathilaka
Operational Manager

Menaka Lakshan
Technical Lead

Supun Madhusanka
Technical Lead

Our Way of Working

We thrive on open communication, fearless brainstorming, and the magic that happens when diverse perspectives collide. Our culture is built on trusting each other's intentions, respecting differences, and ensuring everyone can do their best work regardless of background.

We believe in

- Help teammates succeed.

- Give and take feedback openly.

- Welcome new ideas.

- Take smart risks and question the norms.

Our Workspace

Our workspace is designed to channel this collective energy into ground-breaking solutions:

- **Oracle:** The nerve center of Spera, where bold strategies are forged, critical decisions are made, and the course of our journey is charted.

- **Core:** The gears of management turn, ensuring that our bold ideas are supported by smart, strategic decisions.

- **Sync:** where collaboration fuels progress, where diverse minds come together, challenge ideas, and refine innovations.

- **Spark:** The innovation hub, where engineers, developers, and visionaries turn imagination into reality, shaping the future one breakthrough at a time.

Our Talent Code

From the very first conversation, we look beyond resumes. We seek individuals who embrace change, tackle challenges with optimism, and see every obstacle as an opportunity. Positivity isn't just encouraged; it's essential. Our hiring process is designed to identify self motivated, self aware, and self disciplined individuals, those who don't wait to be told what to do but take initiative and ownership. Because at Spera, we don't just adapt to the future, we create it.

Our Traditions and Celebrations

At Spera, we are a family bound by shared dreams, unwavering support, and a culture of belonging. Every moment here is a celebration, not just of milestones but of the people who make them meaningful. We create an environment where talent thrives, where we uplift ourselves, reaching greater heights together. Our traditions are woven with love, laughter, and appreciation, ensuring that no one ever feels like just a colleague but rather an irreplaceable part of something bigger.

We don't just work, we grow, we celebrate, and we rise, together.

Strengthening Company Values and Vision

Our traditions and celebrations are a reflection of the values that define us. By aligning every activity with a sense of appreciation, unity, and growth, we reinforce our collective purpose, allowing us to come together with a shared sense of direction, inspired by a common goal to push boundaries and achieve greatness.

Fostering Team Unity and Making Every Member Feel Valued

A strong team is built on trust, respect, and meaningful connections. At Spera, we nurture an environment where collaboration thrives, and no one is left behind. From daily interactions to shared traditions, we ensure that everyone feels included and valued. Through thoughtful celebrations, team activities, and moments of recognition, we reinforce the idea that every individual contributes to our collective success.

Promoting Work-Life Balance and Well-Being

We believe that success is not just about productivity but also about maintaining a fulfilling and balanced life. Our culture encourages moments of relaxation, joy, and self care, ensuring that work doesn't overshadow personal well being. Whether it's through engaging team retreats, wellness initiatives, or simple acts of appreciation, we make sure that Spera is a place where people feel energized, supported, and inspired every day.

Creating Shared Memories and Lasting Bonds

Beyond work, we cherish the moments that bring us together. Whatever the celebration or tradition, these experiences strengthen our relationships and create memories that last a lifetime. It's in these moments filled with laughter, shared stories, and genuine connection that we find the true essence of what makes Spera special.

Being the Spera

At Spera, in every recruitment interview, we ask one simple question: 'What makes you happiest?' If the answer revolves around giving, candidates are already a step ahead. This reflects the heart of who we are. At Spera, success isn't just about technology; it's about a commitment to giving back, uplifting others, and making a meaningful impact. We believe in the power of kindness and collaboration to drive positive change.

True progress isn't just about advancing technology, it's about making the world a better place for all.

Empowering Education

Every child deserves the opportunity to learn, dream, and grow without limitations. That's why we've provided school supplies to children, ensuring they have the tools to shape their own futures. Education is the foundation of progress, and we are here to remove the barriers that stand in the way.

Fighting Hunger

For families struggling with food insecurity, we step in. Last year alone, we provided essential dry food supplies to 500 families, ensuring that no one has to choose between hunger and hope.
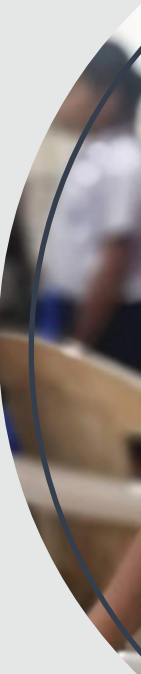
Caring for the Elderly

The elderly, often overlooked in a fast-moving world, hold a special place in ours. We offer them care, companionship, and the reassurance that they are valued, respected, and loved.

Compassion for Animals

Our kindness doesn't stop with people, it extends to all living beings. Through Bark Vision, we care for the voiceless. Last year, we provided 28,000 meals to stray dogs, ensuring they felt warmth, love, and the simple comfort of a full stomach. Moving forward, Future profits will fund the Bark Vision Dog Care Center, providing food, shelter, and love to stray dogs in need.

Giving Back to Nature

Because nature gives us everything, we give back. We're planting trees to restore the natural world and reconnect people to the beauty of nature. We believe in sustainability, protecting the environment, and ensuring that future generations inherit a thriving planet. Every tree we plant helps combat climate change and creates a greener, healthier world for all.

Future Vision

From pioneering AI-driven solutions to reshaping industries with intelligent technologies, Spera has always been driven by a singular mission: to push beyond the limits of imagination. Our journey, which began with software and automation, is now gearing up for a transformative future.

Now, as we stand on the brink of a new frontier, the Spera Innovation & Production Complex is set to transform Sri Lanka into a global powerhouse of technology. No longer just participants in the digital revolution, we are becoming creators, leaders, and pioneers. This complex will be the birthplace of Sri Lanka's first locally produced robots, a hub for AI, blockchain, and automation, and a beacon for global investors seeking the next big breakthrough.

But we dream even bigger. Imagine a future where Sri Lankan built robots walk among us, where AI-driven wearables enhance lives worldwide, where innovation isn't imported but exported to the world. A future where our nation is known not just for its heritage, but for its technological brilliance.

> " The future isn't something we wait for, it's something we create. And at Spera, we are building it now. "
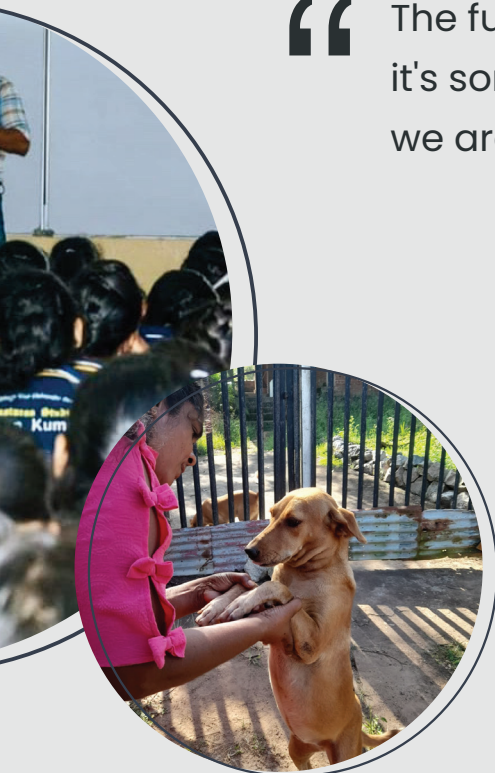
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