



ENGINEERING THE CHANGE

OUR VISION



Engineering a sustainable tomorrow through technology and innovation

With innovation at our core, we challenge the status quo and continuously leverage technology for scaling the future and inspiring new possibilities for our customers.

As we constantly strive for multi-dimensional growth, we hold ourselves accountable for creating a sustainable world and delivering positive outcomes that transcend business boundaries.

With the ability to engineer change, and with the effective use of technology, we are committed to achieving environmental stewardship, social development, and economic progress for all our stakeholders.

OUR MISSION

Be the **engineering partner of choice** by enabling innovation with world-class technologies, processes, and people – delivering inclusive growth for all stakeholders

At LTTS, we are passionate about creating a better and sustainable world for the future of our customers, people, and communities.

As a technology-led engineering company, we encourage a culture of collaboration and learning. Our innovation DNA and a 'can-do attitude' enable us to engineer the change.

With our people as the driving force, integrity, and fairness as our bedrock, we are committed to constantly innovating to strive for the best solution and customer experience. It is this unyielding passion and unfaltering commitment to excellence that ensures inclusive and sustainable growth.



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- Being Purposeful
- Ethics & Integrity
- Caring
- A Culture of Learning
- Results with Accountability

At LTTS, everyone is an Engineer at Heart



Passion For Engineering

Curious About Everything

Fearlessly Creative

Frugal Mindset

Collaborative



LTTS IN A SNAPSHOT

L&T Technology Services is a leading global pure play ER&D services company



341 Global Clients



22,200 Employees



1090 Patents



57Of Global 100 R&D
Spenders as clients



99 R&D Innovation Labs



22 Global Design Centers



TOP 25Best Employers

Globally



25+ Countries



WHAT WE DO

Technology Partner For Sustainable Tomorrow

ER&D Services for









CONSULTING

- Industry 4.0
- Sustainability
- Manufacturing Consulting
- ProductConsulting
- OperationsConsulting
- Digital Architecture
- Digital Thread& PLM

PRODUCT

- SystemDesign
- Mechanical Design
- Software
- Hardware
- Testing & Validation
- Video / MediaEngineering
- Digital Twin

MANUFACTURING

- PlantEngineering
- Digital PLM
- EnterpriseManufacturingManagement
- Integrated AssetManagement
- Digital Factory Modelling & Simulation
- RapidPrototyping

OPERATIONS

- After Market
- Agile Supply Chain
- Asset Care
- ConnectedProductSupport
- Engineering Information Management
- Intelligent Building Management
- System Integration



*Data as of March 31, 2023.

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L&T TECHNOLOGY SERVICES

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OUR DIFFERENTIATORS



INFRASTRUCTURE

99 Innovation Labs for product design, engineering, tear-down, compliance, power electronics & digital



CROSS-POLLINNOVATION

Our multi-domain & multi-vertical expertise enables us to take best practices from adjacent industries and adapt them to your business



SOLUTIONS & ACCELERATORS

Ready-to-use solutions & accelerators for product design, analytics, cybersecurity, Al, test automation, and smart workplaces



DIGITAL ENGINEERING

NexGen Comms IIoT
Analytics/ Al/ ML Security
Cloud Engineering UX



ACROSS MULTIPLE INDUSTRIES

8 of top 10



8 of top 10



Transportation

Hi-Tech and Telecom

7 of top 10



3 of top 5



Plant Engineering

Medical & Lifesciences

7 of top 10



Industrial Products



08,

DevOps



OUR PROVEN PLATFORMS & SOLUTIONS

E-MOBILITY PLATFORM FOR NEXT-GEN **ELECTRIC VEHICLES**

AI BASED CHEST X-RAY RADIOLOGY SUITE

CVOLTTS

Chest-rAi™

INDUSTRIAL ENGINEERING AI TOOL

INTEGRATED **SMART BUILDING EXPERIENCE PLATFORM**

DIGITAL SIGNAGE SOLUTION FOR IMMERSIVE VISUAL EXPERIENCES

MULTI PLATFORM, MULTI DEVICE REMOTE TEST AUTOMATION











LTTS has developed a broad portfolio of proprietary technologies & platforms, including UBIQWEISE, VISIT, WAGES, InspectAR, etc., to help clients accelerate implementations and realize the benefits of Industry 4.0.



Big Innovation Awards. USA for Chest rAI™ and



COMBINED WITH OUR ABILITY TO COLLABORATE

What **LTTS** did?

What

did?

partners

Embedded System | Mechanical Design | Software | Testing



Ruggedized Tablet

Certification | Proto Manufacturing | Procurement | PCB Fabrication

Intelligent Building Platform | Connectivity | **System Integration**



Smartest Campus in the World

Sensors | Cloud Platforms | Machine Learning | Building Facility

Sensorization | Device to Cloud Connectivity



Remote Asset Monitoring

Monitoring Software & Dashboard Data **Analytics**



















L&T TECHNOLOGY SERVICES







L&T TECHNOLOGY SERVICES



NEXT-GEN PARTNERSHIPS FOR NEXT-GEN SOLUTIONS



R&D **PARTNERSHIP** BROADCOM. **m**ware ptc















freescale



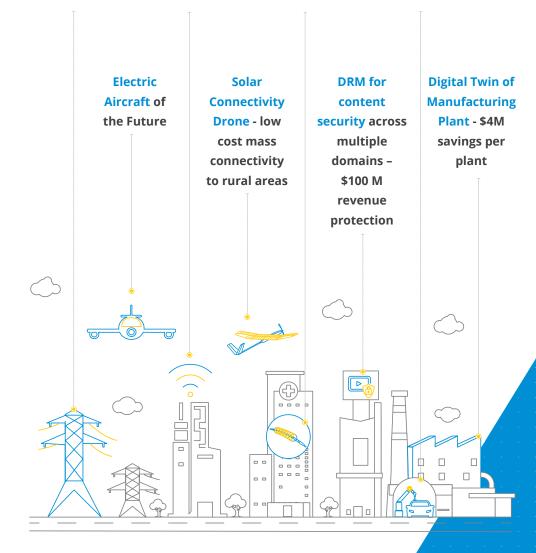
HELPS US ENGINEER PARADIGM SHIFTS

World's 1st Commercial **Mesh Network** for Grids

Architecting the Smartest **Campus in** the world

World's 1st 40 atm rated **Angioplasty** Device

World's 1st **Autonomous** Welding **Robot**





WE CATER TO THE ENGINEERING NEEDS OF THE ENTIRE SPECTRUM



DISRUPTIVE

- Vendor Developed IP
- Minimalistic Development Cycle
- Guarded Development



ADAPTIVE TECHNOLOGY

• Reduce time for development



- Complete Program Ownership
- Sustain & Maintain

AND BRING THE BEST OF A START-UP & LARGE ORGANIZATION

LONGEVITY

Decade Long Engineering Engagements

- 10 Year Engagements with 32 of the Global Top 100 ER&D Spenders
- Engineered 100 Patents & delivered >\$100M cost savings
- 42% of our revenue comes from 10+ year engagements
- 60% of our Top 25 largest customers have been with us for 10+ years
- Long term engagements across all industries

SPEED & INNOVATION

1090 Patents & Counting

World's 1st



Dual Touchscreen
Android Smartphone

Most Efficient Ai Based Radiology

Assist Solution

Most Intelligen

Campus



Electrified Off Highway Vehicle



MATURE PROCESSES













R&D LABS AS A SERVICE



EMI/EMC LAB



RADIO FREQUENCY LAB



OPTICS LAB



THINK STUDIO



POWER ELECTRONICS
DESIGN CENTER



POWER EQUIPMENT TEST FACILITY



ACOUSTICS LAB



ENVIRONMENTAL TESTING



DRY LAB



MATERIAL TESTING CENTER



TEAR DOWN LAB



HARDWARE & TEST EQUIPMENT ENGINEERING



WET LAB



MICROSCOPY LAB



NEXSENS LAB



WELDING STUDIO



IOT INNOVATION HUB



AR/VR INNOVATION HUB



5G LAB



ELECTRIC VEHICLE (EV) LAB



TRANSPORT INSTRUMENT CLUSTER



DIGITAL PLM
DESIGN CENTER



MACHINE VISION & IMAGING



INTEGRATED VIDEO PROCESSING LAB

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HOW THE INDUSTRY RECOGNIZES US



Recognized as a

Great Place to Work®

for its best practices

across India



NASSCOM
'Engineered-In-India
Product Of The Year'
Award For Robotic
Endo-trainer Kit



AND HOW WE GIVE BACK

EDUCATION & SKILL DEVELOPMENT



WATER CONSERVATION



13th Aegis Graham Bell Award for Innovation in EV Charging Infrastructure



Recognized By BW Recycling For **Recycling Plastic Waste** To Create Useful Products

*HOIT*AVONNI



HEALTHCARE FOR THE NEEDY



ENVIRONMENTAL RESTORATION



TOP 25 **Innovative Companies**In India





LTTS wins **Golden Peacock Corporate Social Responsibility Award**



Recognized with ASSOCHAM CSR &
Sustainability Excellence Award 2022 in
the **Healthcare category**

10k Charity Run

Food & Health

TeachFirst

L&T TECHNOLOGY SERVICES



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WHAT ANALYTS SAY

Rated as **expansive & established leaders** by all engineering rating studies

ER&D Services

ER&D Services Rating 2021

Digital Engineering Services Rating 2021

Al Engineering Ratings 2021

Aerospace ER&D Ratings 2021

ER&D Services-US Ratings 2021

ER&D Services-Germany Ratings 2021

Automotive Ratings 2021

ADAS Ratings 2021

Telematics Ratings 2021

Medical Devices Ratings 2021

Telehealth Ratings 2021

Semiconductor ER&D Ratings 2021

Telecommunication ER&D Ratings 2021

OTT Ratings 2021

Industrial Rating 2021

Digital Thread Ratings 2021

IoT Services

IoT Services Ratings 2021

Public Infrastructure Ratings 2021

Telehealth Ratings 2021

Digital Thread Ratings 2021

zinnov

Digital Manufacturing Servcies

Overall

Next-Gen Services Capability

Monitoring and Security Capability



Life Science Digital Services

MedTech Digital Transformation Services - Europe

MedTech Digital Transformation Services - US

Manufacturing industry Services

Digital Engineering – Transportation, US

Digital Engineering – Hi-Tech, US

Digital Engineering - Industrial, US

Digital Engineering – Transportation, Europe

Digital Engineering – Industrial, Europe

Internet of Things- Services & Solutions

IT/OT Tech Data Convergence

IoT Consulting and Services

Al on the Edge

IoT Endpoint Security

IoT Consulting and Services US

Managed IoT Services US

Connected Mobility Consulting and Services US



ACES

Services

Semiconductor

Semiconductor Engineering Services

PEAK Matrix® Assessment 2021







A CLOSER LOOK AT OUR INDUSTRY OFFERINGS

SOFTWARE & PLATFORMS

WHO WE SERVE

- Hyperscalers
- Vertical ISVs
- OT Cybersecurity
 Solution Providers
- OT Tool Solution
 Providers
- Data & Platforms
 Solution Providers

WHAT WE DO







Create



Collaborate



Verify & Validate

SUCCESS STORIES

- Digital Transformation Resulting in 20% Infrastructure Cost Savings
- Engineering Productivity with Remote Asset Monitoring for 30,000 Heavy Industry Assets
- World's 1st Airway Clearance System with Bluetooth Connectivity
- Driving Sustainable Energy Efficiency via LTTS's IIoT Solution

INDUSTRIAL PRODUCTS

WHO WE SERVE

- Industrial Machinery
- Oil & Gas
- Renewable Energy
- Power Electronics
- Building Solutions
- Automation

- Test & Measurement
- Special Machine Tools
- Lighting Engineering

AWARD WINNING PRODUCTS



EMERGENCY LUMINAIRE

Best of Category Design Excellence Awards in LIGHTFAIR® International 2018



VIBRATION METER

Danaher Golden Innovative Award



GRID TIED SOLAR INVERTER

Solar Industry Award



POWER

Plant Engineering
Product of the
Year Gold Award

SUCCESS STORIES

- World's 1st Motion Activated Screwdriver
- World's 1st Autonomous Welding Robot
- Smartest Campus in the World
- Patented Multi-voltage Booster Technology for Welding Power Source
- Patented Portable Vibration Analyser
- High Power DC-DC Converter
- Grid Tied Solar Inverter
- Machine Vision System with Patented Technology for Leak Detection

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GROUND TRANSPORT



AUTOMOTIVE

- Infotainment & **Driver Information Systems**
- Connected Cars
- **Body Electronics & Comfort Systems**
- ADAS & Autonomous Drive
- Powertrain and Alternate Propulsion Systems
- Body Engineering & Safety Restraints

TRUCK & OFF HIGHWAY

Product Engineering, Manufacturing Engineering & Digital Engineering across all product lines













SUCCESS STORIES

- Android Based Infotainment Cluster for Automotive OEMs
- Integrated Radar & Camera **Development for Automotive** Tier-1 Supplier
- Remote Tracking & Monitoring for Heavy Construction **Equipment & Mixed Fleet**

- **Optimizing Cost of Lifting** System of Lawn Tractor Through Redesign
- 3D Modeling & Simulation of Automotive Manufacturing Plant
- Competitive Benchmarking of Tower Crane for the India Market

AEROSPACE & RAIL

AEROSPACE - WHAT WE DO

Aero Structures





In-flight Entertainment

Aero **Systems**





Drone Solutions and Services

Avionics





Test Equipment

Aero **Engines**





Air Traffic Mgmt.

RAIL - WHAT WE DO







Rail Signaling



Safety & Reliability (RAMS)

SUCCESS STORIES

- Next-gen Aircraft Propulsion System
- Advanced Seatback IFEC System
- Optimization of Horizontal Stabilizer for an Aerospace Major
- Model Based Engineering for Aircraft Heater Module
- Parabolic Aluminized Reflector (PAR) Lighting
- Development of a Safe & Reliable Railway Brake Controller
- Foolproof independent checking & standard setting for a Light Rail Transit System





MEDICAL DEVICES & LIFESCIENCES





WHO WE SERVE

- Therapeution
- Musculoskeletal & Surgical

- Diagnostic
- IVD & Lifesciences
- Pharmaceutical

WHAT WE DO



Device Engineering



Digital Healt



Manufacturing Services



Field Services



Quality Assurance & Regulatory Assurance

SUCCESS STORIES

- Disposable and Single Hand Operated World's 1st Drug Patch Applicator
- World's Leading Smart Inhaler
- 3D Printing for Customized Knee Implants
- World's 1st Medical Device to Produce 40 atm Pressure

- World's 1st Airway Clearance System with Bluetooth® Connectivity
- Integrated Reusable Vessel Sealing & Cutting Device for Emerging Markets
- Automated Blood Cell Counter with Precision of >99% and Consumption of 2% Less Blood

SEMICONDUCTORS

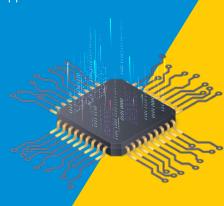


SUCCESS STORIES

- Turnkey System on Chip / ASIC Design:
 Image Processing Chip for Industrial Camera Applications
 Laptop/PC AI SoC Ultra Low Power Companion Chip
 Mobile Phone Application Chips SSD Controller
 Low Power AR/VR SoC for Media & Entertainment Applications
- System Design and Validation:

 Data Center Products Design and Validation

 Automotive Infotainment Products
 Networking Products
 IoT Products





CONSUMER ELECTRONICS

WHO WE SERVE

- Personal Devices
- Enterprise Devices
- Accessories and Console
- Wearables
- Consumer IoT & Retail

WHAT WE DO



Testing And Certification



Connectivity Support



Android/Linux Platform Bringup



Peripheral and Sensor Integration



Application UI/ UX & Customization



Maintenance and Upgrades

SUCCESS STORIES

- World's 1st Dual Touch Screen Smartphone
- World's 1st Wearable Support Network

- Design and Proto
 Manufacturing of Ruggedized,
 Smart Public Safety Device
- Cloud based Smart Home
 Automation Experience

TELECOMMUNICATIONS

WHO WE SERVE



Communication Service Providers (CSP)



Mobile Network
Operators (MNO)



Original Equipment

Manufacturer (OEM)

WHAT WE DO



Network Orchestration & Virtualization (SDN/NFV)



IoT Service & Platform Enablement



Telco Cloud Engineering



Global Field
Testing and Automation



5G - Chip to Cloud Deployment



5G - Lab as a Service

KEY DIFFERENTIATORS

- End-to-End Product Design & Development
- Private LTE/5G Network in Lab
- 5G Automation Framework
- Acceleration-as-a-Service & Monetization Solutions
- ORAN based Open Sourced 5G Lab
- Test Factory Tools, IP & Frameworks



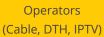
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MEDIA & ENTERTAINMENT



WHO WE SERVE







OEMs Players



Software Players

WHAT WE DO



Product Engineering



Product Conceptualization



OTT

Design & Development



Testing & Certification



Manufacturing Support



Product Maintainence



Engineering

PROPRIETARY SOLUTIONS

- Cogmation Test Automation Framework
- RDK Emulator Tool
- Cloud EPG & Recommendation Engine
- STB Log Analytics
- FlyBoard Next-gen Digital Signage Solution

PLANT ENGINEERING

WHO WE SERVE

- Oil & Gas
- Chemicals
- Home & Personal Care

- Food, Beverages & Dairy
- Pharmaceuticals
- Discrete Manufacturing

WHAT WE DO



EPCM & PMC



Operation & Maintenance



Engineering Design



Decommissioning Support



Consulting



Asset Management Services

SUCCESS STORIES

- Turnkey Wastewater Management services for global F&B major in USA
- Enabled expansion project for global polymer major during pandemic
- EPCM Services for Chemical Major in Europe
- EPCM services for tire plant in India
- Engineering for Edible oil refinery in South Africa
- Engineering plant safety with machine guarding solutions for HPC major in US
- OPEX reduction using ZLD concept enabling 42% recycled water reuse for tire manufacturer
- Engineering for Greenfield projects in India for global F&B major









