

New Scientific Advisor Strengthens SARACA's Engineering and Innovation Leadership

SARACA appoints Dr. Tapas Chakravarty as Principal Scientific Advisor, strengthening expertise in RF, embedded systems, and advanced sensing technologies.

NOIDA, UTTAR PRADESH, INDIA, May 12, 2026 /EINPresswire.com/ -- [SARACA Solutions](#) is pleased



Dr. Chakravarty's expertise will accelerate innovation and strengthen our ability to deliver advanced engineering solutions to global customers"

Satyam Sahu, Assistant Manager - BD, SARACA Solutions

to announce the addition of Dr. Tapas Chakravarty as Principal Scientific Advisor. He brings nearly four decades of experience in [Embedded Systems, RF and Microwave Technologies](#), and advanced sensing systems.

Dr. Chakravarty is a distinguished technology leader with deep expertise in RF design, radar technologies, microwave imaging, and signal processing. Over the course of his career, he has contributed extensively to innovation, holding more than 200 patents and authoring around 170 peer-reviewed publications.

Prior to joining SARACA Solutions, Dr. Chakravarty served as Chief Scientist at TCS Research, where he led the

'Sensing and Communication' laboratory and was recognized with the Distinguished Scientist Award. He began his career at SAMEER (MeitY, Government of India), building a strong foundation in RF and microwave engineering.

In addition to his industry contributions, he is also a Senior Member of the IEEE (Institute of Electrical and Electronics Engineers).

"We are delighted to welcome Dr. Chakravarty to SARACA," said Kuldeep Tyagi, CEO and Managing Director of SARACA Solutions. "His vast experience in advanced technologies and strong research background will add significant value to our organization. As we continue to expand our engineering and innovation capabilities, his leadership will help us address complex challenges and deliver cutting-edge solutions to our global customers."

"I am pleased to join SARACA Solutions at a time when engineering innovation is rapidly evolving," said Dr. Chakravarty. "SARACA's expanding global footprint makes it an ideal platform for contributing to impactful technology development."

About SARACA-

SARACA is an ISO 13485 certified global engineering R&D and consulting organization, delivering end-to-end product development and lifecycle support services across multiple industries.

The company partners with Fortune 500 customers worldwide, enabling accelerated product development, improved quality, and faster time-to-market through integrated engineering and digital capabilities.

SARACA provides end-to-end engineering solutions, combining product engineering, embedded systems, quality assurance, regulatory affairs, and clinical expertise to support customers from concept to commercialization.

With strong domain knowledge and multidisciplinary engineering teams, SARACA specializes in delivering innovative, scalable, and regulatory-compliant solutions across complex and safety-critical industries.



SARACA Solutions expands its global engineering leadership with the appointment of Dr. Tapas Chakravarty as Principal Scientific Advisor.

Industries We Serve-

Medical Devices & Healthcare Technologies

Life Sciences & Biotechnology

Pharmaceuticals

Aerospace & Defense

Automotive & Mobility

Rail Transportation

Industrial & Consumer Engineering

Semiconductor & Electronics

Software & Digital Platforms

Engineering Capabilities-

1. Engineering & Product Development

End-to-end product design and development (mechanical, electronics & embedded systems)

Concept design, prototyping, validation & manufacturing support

Reverse engineering, value engineering & sustenance engineering

Advanced simulations: FEA, CFD, thermal & structural analysis

2. Mechanical Engineering

Product design, industrial design, and reverse engineering

GD&T, tolerance stack-up analysis, and value engineering

Advanced simulations: FEA, CFD, thermal, structural, and modal analysis

Manufacturing support including prototyping, tooling, and design transfer

3. Software & Digital Engineering

Full-stack software development (web, mobile, enterprise applications)

Cloud, DevOps, and microservices architecture

AI/ML, data analytics, IoT, and computer vision solutions

UI/UX and HMI development across domains

4. Embedded Systems Engineering

a. Hardware Engineering-

High-speed digital, analog, and mixed-signal design

SoC, FPGA, IoT-enabled systems

PCB design, prototyping, testing, and validation

EMI/EMC, RoHS, and regulatory compliance

b. Firmware Engineering-

Low-level driver development and embedded software design

RTOS, Linux-based systems, and secure firmware solutions

Performance optimization and real-time system development

c. Verification & Validation (V&V)-

Test strategy, planning, execution, and reporting

Functional, regression, compliance, and system testing

HIL, SIL, MIL testing and automation frameworks

Risk assessment, mitigation, and certification support

5. Quality, Regulatory & Clinical Expertise

a. Quality Assurance (QA)-

QMS development and compliance (ISO 13485, FDA 21 CFR 820)

Risk management (ISO 14971)

Design control, DHF, and technical documentation

Post-market surveillance, CAPA & audits

b. Regulatory Affairs (RA)-

Global regulatory strategy & submissions

US FDA (510k, PMA), EU MDR/IVDR compliance

Gap analysis, remediation & technical file development

c. Clinical Affairs (CA)-

Clinical Evaluation Plans (CEP) & Reports (CER)

PMCF strategies & clinical data analysis

Literature review, benefit-risk analysis & reporting

6. Software Testing and Test Automation

a. Manual & Automation Testing

planning, design, reporting

Functional, White/Black Box, Regression; MIL/SIL/HIL (V-Model compliant)

Tools: CANoe, VN1630A, CAN Stress, BUSMASTER

b. Verification & Validation (V&V)

Functional, Regression, Compliance & System Acceptance Testing

Requirements traceability

Tools: CANoe, VN1630A, CAN Stress, BUSMASTER

c. Analysis

Complexity Analysis: SourceMonitor, Understand

Static/Dynamic Analysis: Polyspace, LDRA

Bug Tracking: JIRA | Configuration: Git, Bitbucket, SVN

Kuldeep Tyagi

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