Application: 5915

Sashi Kiran Vuppala

Page: General Information

Provide information about the company to be considered for the award. If you will be nominating an individual, specify the nominee's employer.

Name of Organization/Company

Tata Consultancy Services Ltd

[redacted]

Additional Contacts

I would also like to have others receive emails about the disposition of our entries.

Page: Entry Information

Entry Title

Sashi Kiran Vuppala

Category

B11. Employee of the Year - Aerospace Technology

Employee Nominee Submission Format

Written Answers

a. Briefly describe the nominated non-executive person's employer: the organization's history and past performance (up to 200 words). Required

TCS serves as a long-standing implementation partner for [redacted] ne of the world's largest aerospace and defense companies. Through the [redacted] engagement, TCS is responsible for delivering mission-critical IT services and modernization efforts to support [redacted] ngineering, production, and quality operations.

The [redacted] division manages essential systems such as LSIE (Logical Support Integration Environment), 7 [redacted] ToolBox V2, eSWAT, and LSIE AI—platforms that process high volumes of engineering documentation, XML-based aircraft manuals, and digital lifecycle support content.

Tata Consultancy Services (TCS) is one of the world's leading IT services, consulting, and business solutions organizations. With a presence in over 50 countries and a workforce exceeding 600,000, TCS has been at the forefront of enterprise technology for over five decades. The company has built a strong reputation for enabling digital transformation across highly regulated industries like aerospace, banking, insurance, and telecommunications.

As a key contributor and technical architect from TCS, I have played a pivotal role in re-engineering these aerospace systems using modern cloud-native technologies, while aligning tightly with [redacted] perational, security, and compliance standards.

b. Outline the nominated non-executive employee's achievements since the beginning of 2023 that you wish to bring to the judges' attention (up to 250 words). Required

Working within the [redacted] rogram, I spearheaded the cloud-native transformation of LSIE (Logical Support Integration Environment) and [redacted] ToolBox V2. These applications are vital for managing large-scale ingestion and processing of engineering data, technical manuals, and image-rich documentation used across aircraft production and support.

Key achievements include:

Migrating legacy systems into containerized microservices using Docker and Kubernetes, deployed on Azure Cloud.

Redesigning XML cron-based workflows into automated, scalable pipelines covering RVS, PreProcess, and Outbound stages.

Integrating Camunda BPM for long-running workflow orchestration with full traceability and audit compliance.

Introducing Apache Kafka for decoupled, event-driven inter-service communication.

Upgrading IBM MQ from v7 to v9.3, enhancing message reliability and system performance.

These implementations were completed without interrupting [redacted] ission-critical operations. My responsibilities extended beyond coding—I collaborated with [redacted] ngineering and operations teams to align the system architecture with long-term modernization and business continuity goals.

This work resulted in higher processing efficiency, reduced manual intervention, faster data publishing to ToolBox, and improved reliability of aerospace IT systems that directly impact daily operations for [redacted] ngineers and support staff.

c. Explain why the achievements you have highlighted are unique or significant. If possible compare the achievements to the performance of other employees or to other workers in your industry and/or to the nominee's past performance (up to 250 words). Required

What makes these achievements unique is that they were delivered in a highly regulated aerospace environment, where even small architectural shifts must be executed with precision, performance validation, and full operational continuity.

Most aerospace applications still rely heavily on legacy systems due to the risk of downtime and data inconsistency. However, through my role as a senior architect from TCS, I successfully led the transformation of [redacted] platforms into cloud-native, event-driven, and containerized architectures—a milestone rarely achieved at scale in the aerospace sector.

The introduction of Azure-based Kubernetes deployments, Kafka-driven messaging, and Camunda BPM orchestration introduced measurable improvements in data flow, job scheduling, and workflow automation. [redacted] ngineers now access validated, processed data more quicklywhich supports faster decisions in production, inspection, and quality control workflows.

My upgrade of IBM MQ and decoupling of legacy cron jobs modernized system communication and batch processing while minimizing service disruption. These innovations set a benchmark for future transformations at [redacted] d demonstrate how implementation partners can act as true technology enablers.

Compared to others in similar roles, my achievements stand out not just for the technical depth—but for the impact, scalability, and precision delivered within an industry that demands reliability at every level. I did not just maintain legacy systems—I redefined how they operate and scale.

d. Reference any attachments of supporting materials throughout this nomination and how they provide evidence of the claims you have made in this nomination (up to 250 words). Optional

Due to [redacted] internal policies and my role as a lead consultant from Tata Consultancy Services (TCS), I am unable to share internal architecture diagrams, system performance benchmarks, or workflow screenshots related to LSIE, [redacted] ToolBox V2, or [redacted]

However, all of the achievements described were delivered in live production environments and have been adopted across Boeing's engineering and production departments. The re-architected LSIE workflows and cloud-integrated [redacted] ToolBox data pipelines are actively used by internal stakeholders and supported through ongoing DevOps practices.

As additional evidence of my credibility and technical leadership:

I've served as a judge for the Globee Technology Awards in Technology and Artificial Intelligence categories.

I've published peer-reviewed research papers on workflow automation, fraud detection, cloud modernization, and AI integration in journals including IJISAE, IJIRMPS, ISJEM, and IJLRP.

I hold senior memberships with IEEE, SAS Society (Eminent Fellow), and IJCEM.

These contributions reflect a broader commitment to excellence in enterprise systems delivery and digital innovation —beyond individual projects—while maintaining full confidentiality for clients like [redacted]

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