

MUSARRAF HOSSAIN, TECHNOLOGY & PEOPLE'S LEADER LEADER

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👤 PROFILE SUMMERY

A results-driven Technology and People Leader with over 19 years of hands-on experience and a proven track record in technology, product and people leadership across e-commerce, Intra-logistics, warehouse automation, and medical device technology. Adept at leading and empowering high-performing, cross-functional Agile teams, I consistently deliver outstanding technology solutions that align with business goals and optimize customer outcomes. My entrepreneurial spirit and passion for new technologies drive me to manage product portfolios from concept to production, creating real value for users and society.

⚙️ LEADERSHIP SKILLS

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| • Cross-functional Team Leadership | • Technology Direction & Innovation |
| • User-Centered Design | • Self-aware People Leader |
| • Architectural Design Principles | • Inclusive Servant Leader |
| • Agile Methodologies | • Excellent Communication |
| • Product Development Life Cycle | • Teamwork & Collaboration |
| • Requirement Engineering | • Strategic Thinker |
| • Design Verification and Validation | • Staff Training & Coaching |
| • Project & Program Management | • Recruitments |

🏢 PROFESSIONAL EXPERIENCE

People & Project Leader, Robotics | Novo Nordisk A/S, Kalundborg **Aug 2024 – Present**

Spearheading transformative robotics and advanced automation projects within Novo Nordisk's Product Supply API division by leading and motivating a high-performing team to deliver innovative solutions that drive digitalization and advanced pharmaceutical manufacturing.

- Spearheading robotics and advanced automation projects in pharmaceutical manufacturing, leading teams to deliver innovative automation solutions for pharmaceutical Processes.
- Led cross-functional teams in the design and implementation of robotic automation for pharmaceutical processes, ensuring GxP compliance.
- Managed project scope, budget, and timelines for automating manual pharmaceutical processes.
- Oversaw the full project lifecycle from design and validation to deployment of automated robotic automation systems.
- Implemented risk management and quality control for automated systems to enhance product quality and safety.
- Directed a team of engineers and technicians, driving digitalization and advanced manufacturing through robotics automation solutions.

Vice President, Engineering | Blue Ocean Robotics, Odense **Mar 2021 – Present**

Elevated to the position of VP of Engineering in recognition of outstanding leadership in product engineering, technical roadmap and team management.

- Lead a team of 43 staff, including managers, developers, QAs, product managers, regulatory compliance engineers, and architects.
- Executed technology strategy for infrastructure, partnerships, and external relations, optimizing platform performance and reducing expenses.
- Fostered a culture of innovation, collaboration, and continuous improvement across engineering and product teams.
- Set the direction for digital product development, formulated roadmaps, and managed staffing and budgets to support strategic goals.
- Recruited and expanded the department by 500% to cover Web, Mobile, Middleware Integration, Quality Assurance, DevOps, and Production Support.
- Transformed the project-based delivery model to a digital product-oriented one, increasing release frequencies by 200% - 300% through agile methodologies.
- Improved the performance of new digital product delivery and oversaw reporting on metrics, KPIs, and SLAs.
- Formulated IT security policies for both the organization and product development, achieving ISO 27001 certification.

Skill Group Leader & Sr. Robot Architect | Blue Ocean Robotics, Odense Mar 2018 – Mar 2021

- Led Agile software engineering practices for patient transfer and UV disinfection robots, focusing on robust and scalable software.
- Streamlined software requirements management and allocation, software design and implementation, and Verification & Validation (V&V) procedures compliant with IEC 62304, ISO 13485, and FDA QSR 21 CFR 820 for regulatory approval.
- Built a Testing Center of Excellence to improve maturity by introducing Behavior Driven Development (BDD) and Test Driven Development (TDD) and integrating test management suites.
- Implemented DevOps, Infrastructure as Code (IaC), and CI/CD pipelines to fully automate infrastructure, server, build, and deployment processes across software applications.
- Improved development quality by increasing unit test coverage by 200% - 400%.
- Developed a Cloud-based Robot Fleet Management and data logging system utilizing Prometheus, MongoDB, MQTT, and REST APIs for robust platform management and data architecture.
- Developed a WebRTC based robotic video conference application (Telepresence Robot) connecting patients and healthcare providers, demonstrating expertise in user-facing digital solutions.

Principal Architect | GreyOrange India Pvt Ltd, India Mar 2018 – Mar 2021

- Oversaw the development of software solutions for Warehouse Control Systems (WCS) and Warehouse Management Systems (WMS), including architecture, coding, testing, and deployment.
- Managed digital product development for mobile robots within warehouse and logistics automation, delivering end-to-end solutions for order fulfillment, sortation systems, inventory storage and retrieval, pick/put to light systems, and ERP integration.
- Collaborated with cross-functional teams to ensure smooth deployments and operations of cloud-based WMS
- Led middleware development for ROS to interface sensors, BMS, motor controllers, and other peripheral integration, optimizing software integration for complex systems.
- Performed design and code reviews, and documented design and implementation methodologies to ensure high-quality, maintainable software stacks.
- Implemented DevOps methodologies to rapidly increase technical agility and reduce time for service delivery and time-to-market.

EDUCATION

Birla Institute of Technology and Science, Pilani (BITS)	2017 – 2019
<i>Master of Technology, Embedded Systems, Specialized in Robotics.</i>	CGPA: 8.15/10
Shanmugha Arts, Science, Technology and Research Academy (SASTRA)	2006 – 2009
<i>B.Tech, Electrical and Electronics Engineering</i>	CGPA: 9.31/10
West Bengal State Council of Technical Education (WBSCTE)	2003 – 2004
<i>Diploma, Information Technology</i>	CGPA: 9/10
Ramakrishna Mission Shilpapitha, Belgharia, Kolkata (RKMS)	2001 – 2004
<i>Diploma, Electrical Engineering</i>	CGPA: 8.82/10

TECHNICAL SKILLS

- C, C++, Python, R, JavaScript, React, SQL, Bash, Sh, Zsh.
- Serverless, Kubernetes, Pods, Docker, SaaS, IIoT, AWS EC2, Google Cloud, Rest API, Azure
- DevOps, JIRA, Confluence, Git, CI/CD, Jenkins, Vim, ROS, ROS2, Gazebo,
- Device Tree, Buildroot, Yocto, Mender, Custom Linux, OTA, Robot Fleet Management
- UART, I2C, SPI, USB, BLE, CAN, CANOpen, Linux, Embedded Linux, WSL, Kernel, Linux SysAdmin
- Test Driven Development (TDD), Behavior Driven Development (BDD)

LANGUAGES KNOWN

- **English** - Proficient
- **Hindi** - Native
- **Danish** - Conversational
- **Tamil** - Conversational
- **Bengali** - Native