

Mohamed Abdelmomen



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Profile

Results-driven Senior Operations Manager and Technical Leader with proven expertise in technical due diligence, M&A data analysis, R&D management, engineering management, and cross-functional team leadership. Proficient in technical team management, Agile project delivery, process automation, and end-to-end product development.

Experienced in applying Lean Six Sigma, Agile, Kanban, and Scrum methodologies to optimize performance, improve quality, and reduce operational costs. Adept at establishing scalable R&D and documentation systems, enhancing stakeholder communication, and leveraging data analytics to guide strategic decisions. Recognized for strong leadership, mentorship, and organizational skills, with fluency in Arabic and English and working proficiency in German and Estonian. Certified Lean Six Sigma Yellow Belt and Tech2Market Expert.

Experience

PROCESS & OPERATIONS MANAGER | RINGSTONE TECHNOLOGIES | FEB 2022 – PRESENT

Key Achievements:

- Developed a market prediction model leveraging AI (Artificial Intelligence) and ML (Machine Learning) for Private Equity and Venture Capital clients, supporting investment due diligence and portfolio analysis.
- Automated QA, developed DevOps & CI/CD, and reporting workflows, improving operational efficiency by over 85% and reducing cycle times across technical documentation and data validation processes.
- Streamlined hardware and software technical due diligence to meet M&A and R&D requirements using built AI tools.
- Directed a cross-functional team, streamlining onboarding and developing business continuity systems using a cloud platform.
- Directed international technical projects, driving communication, efficiency, quality, and AI-led processes.
- Designed and implemented onboarding, feedback, and employee performance systems for organization-wide scalability.
- Built internal training programs to support continuous learning & operational excellence, saving 70% of the onboarding time.
- Built support and documentation systems, improving operational visibility and control.

Core Responsibilities:

- Product Ownership & Leadership:
- Managed end-to-end product launches, collaborated with cross-functional teams to define roadmaps, and operated in an Agile/Scrum environment to prioritize and track performance.
- Designed and implemented scalable systems and best practices to enhance organizational efficiency and delivery standards.
- Served as Scrum Master for the back-office team, facilitating sprint planning, retrospectives, and progress tracking.
- Quality Assurance & Automation:
- Defined and executed QA test plans, built automated testing pipelines, and maintained a robust QA automation framework.
- Enhanced QA performance and provided technical leadership across engineering teams.
- M&A and Data Analytics:
- Conducted quantitative data analysis and outside-in assessments for Private Equity and Venture Capital due diligence.
- Analyzed VDRs, produced data analysis dashboards, and collaborated with partners to resolve data inconsistencies and identify competitive advantages.
- Specialized in Data Quality, Data Assembly, and Analytical Modeling to enhance reporting precision and insight generation.
- Technical Documentation & Review:
- Conducted sanity checks, CVI reviews, and final report validations in partnership with the Principal/Partner.
- Ensured compliance and brand consistency across client documentation and audit reports.

ENGINEERING MANAGER & PROJECT MANAGER | BERCMAN TECHNOLOGIES | JUN 2021 – APR 2022

Key Achievements:

- Achieved TRL 7 within 11 months for a locomotive R&D project under EN 50155 compliance.
- Established R&D processes, created comprehensive engineering documentation systems, and standardized workflows across software and hardware development.

- Applied Lean Six Sigma methodologies to design and optimize engineering workflows, continuous improvement frameworks, and lifecycle management systems.
- Optimized supply chain operations, improving procurement, vendor management, and supplier performance.
- Built and led the Mechanical Engineering team, overseeing certifications and client relations.

Core Responsibilities:

- Project Leadership:
 - Oversaw end-to-end project management, including scope, scheduling, and compliance with engineering and safety standards.
 - Designed and validated mechanical engineering systems, technical specifications, and documentation packages.
 - Collaborated with clients and stakeholders to define budgets, technical requirements, and acceptance criteria.
- R&D and Process Development:
 - Defined R&D strategies, enhanced team efficiency, and implemented Agile-based engineering processes.
 - Supervised design, prototyping, and testing phases, ensuring technical validation and quality assurance.
 - Presented technical reports, test results, and performance analyses to stakeholders and certification authorities.
- Training and Competency Development:
 - Designed training programs and competency frameworks to support team development.
 - Monitored individual and team performance metrics, driving continuous skill development.
- Supply Chain and Procurement Management:
 - Implemented supply chain workflows to optimize material flow, procurement cycles, and supplier evaluation.
 - Negotiated and maintained supplier relationships and certifications to ensure quality, compliance, and cost efficiency.
- Technical Documentation and Reporting:
 - Authored and reviewed engineering documentation, data reports, and compliance dossiers.
 - Provided technical consultation, analyzed test data, and supported final certification and validation submissions.

MECHANICAL R&D ENGINEER | ABB | MAR 2020 – AUG 2021

- Developed detailed product documentation using PDM (Product Data Management) and CAD (Computer-Aided Design) systems, ensuring design accuracy and traceability.
- Enhanced plant safety through Lean manufacturing and Six Sigma process optimization.
- Created and executed FMEA (Failure Mode and Effects Analysis) for new product lines, identifying root causes and mitigating risks through continuous improvement initiatives.
- Applied Lean Six Sigma methodologies to analyze production bottlenecks, streamline workflows, and reduce operational costs.
- Conducted cost analysis and implemented cost-reduction strategies, improving manufacturing efficiency and profitability.

RESEACH AND TEACHING ASSISTANT | NILE UNIVERSITY | OCT 2016 – JUN 2018

- Conducted numerical simulations on thin-walled pipe bends.
- Co-authored journal and conference papers in the piping and pressure vessels field.
- Prepared labs, calibrated instruments, and proctored Physics experiments.

Education

MSC IN MECHATRONICS | JUN 2020 | TALLINN UNIVERSITY OF TECHNOLOGY, TALLINN, ESTONIA

BSC IN MECHANICAL ENGINEERING | JUL 2018 | NILE UNIVERSITY, GIZA, EGYPT

Skills & Abilities

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|------------------------------|---|------------------------------|
| • Tech To Market Evaluation | • R&D Practices Development | <u>Languages</u> |
| • Technical Due Diligence | • Automation | • Arabic (Mother Tongue) |
| • Data Visualization | • JavaScript, Python, ClickUp, Teamcenter | • English (fluent/bilingual) |
| • Stakeholders Communication | • Trello, CREO, Solidworks, Abaqus, | • German (Intermediate) |
| • CI/CD process development | Simens NX, MSC Adams, AutoCAD | • Estonian (Intermediate) |

Memberships

Expert Mentor for Tech2Market programs with [EIC](#) | Expert Evaluator for [EIT Urban Mobility](#) | [Angel Investor](#) for Bezos.ai | Active Member of Tallinn Goodwill [Rotary Club](#) | Local Technical Expert with [The World Bank](#).

Certifications

Yellow Belt Lean Six Sigma | Tech2Market Expert with EIC | B-READY The World Bank Local Expert