

Sebastian Kokar

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SUMMARY: Results-driven leader with 20+ years of experience in manufacturing, supply chain, and new product introduction. Expertise in SMT, electric engine and lithium-ion battery assembly, thermal management, and high-reliability electronics. Proven ability to scale production, optimize operations, drive quality, and build strong supplier relationships for operational efficiency and business growth.

PROFESSIONAL EXPERIENCE

ARCHER AVIATION

AUGUST 2021 – AUGUST 2024

ELECTRIC VERTICAL TAKE-OFF & LANDING AIRCRAFT

SAN JOSE, CALIFORNIA

SUPPLIER DEVELOPMENT MANAGER

- Managed external suppliers by driving status updates, prioritizing tasks and resolving quality issues to ensure the initial build of critical components for Electric Vertical Take-Off & Landing (eVTOL) aircraft assembly.
- Led onsite supplier assessments during the Request for Quote (RFQ) and selection to evaluate capability, capacity, quality, cost and delivery, ensuring key supplier identification and on-time production launches.
- Performed Design for Manufacturing (DFM) analysis on electric engine & battery components, optimizing production efficiency, reducing defects, and improving process reliability in collaboration with suppliers.

GOGO INTELSAT

MARCH 2017 – JULY 2021

IN-FLIGHT BROADBAND INTERNET SERVICE FOR COMMERCIAL AIRCRAFT

CHICAGO, ILLINOIS

SUPPLIER INDUSTRIALIZATION ENGINEER LEAD

- Guided external vendors through audits, production readiness, and flow downs to achieve FAA certification for electromechanical components, ensuring compliance with regulatory standards, and on-time certification.
- Led a composite supplier through the Production Part Approval Process (PPAP) for a major OEM customer, using APQP tools to ensure quality compliance, resolved issues, and deliver critical components on time.
- Developed cost build-up models for RF components through data analysis and market research, identifying savings opportunities. Led supplier negotiations, reducing cost by 10% and improving profit margins.

LYTRON

JUNE 2013 – FEBRUARY 2017

LIQUID COOLING SOLUTIONS, MEDICAL & SEMICONDUCTOR

WOBURN, MASSACHUSETTS

SYSTEMS MANUFACTURING ENGINEER

- Led end-to-end manufacturing of cooling systems from concept to production, developing processes, and standardizing workflows. Designed and implemented assembly fixtures, torque and coolant filling systems.
- Served as the primary technical contact for multiple production lines, leading investigation efforts to resolve technical issues. Developed detailed work instructions using Solid Works to ensure accurate processes.
- Optimized the production line by balancing it across 4 assembly stations, including a testing and inspection station and a designated packaging area. Improved TAKT time to achieve production rate of 2 hours per unit.

BEACON POWER

JUNE 2008 – NOVEMBER 2012

FLYWHEEL-BASED ENERGY STORAGE TECHNOLOGY

TYNGSBORO, MASSACHUSETTS

MANUFACTURING ENGINEER

- Led a field service team of six to manage flywheel energy storage operations, overseeing system inspections, preventive maintenance scheduling, and contractor coordination to ensure optimal equipment performance.
- Supported commissioning and operation of 20MW system, including cooling system balancing, chiller and AC set up, network communication configuration, monitoring system activation, and acceptance test execution.
- Developed processes for composite rim flywheel assembly, including finishing, balancing, hub-to-rim integration, dc motor installation, and testing, while ramping up production for a 200-flywheel system.
- Created travelers, assembly instructions, test procedures, system commissioning and operating manuals.

SATCON ELECTRONICS*HYBRID ELECTRONIC ASSEMBLIES AND MODULES*

JANUARY 2007 – MAY 2008

MARLBOROUGH, MASSACHUSETTS

PROCESS ENGINEER

- Optimized Surface Mount Technology (SMT) Production Line: Increased capacity and efficiency by integrating prototype Printed Circuit Boards (PCBs), streamlining existing workflows, and fine-tuning equipment calibration, resulting in improved quality, reliability, on-time delivery, and scalability for future demands.
- Developed and implemented manufacturing processes for DC-DC converters and digital switching regulators.

LEONARDO DRS*ELECTRIC DRIVE SHIP PROPULSION SYSTEMS*

JUNE 2003 – NOVEMBER 2006

FITCHBURG, MASSACHUSETTS

MANUFACTURING ENGINEER LEAD

- Led a team of five to develop electrical testing for stator and module upgrades, enhancing performance and durability through Phase/Insulation Resistance, Dielectric Strength, Surge, and Partial Discharge tests.
- Collaborated with an external vendor to manage stator assembly prototype build, optimizing lamination compression, insulation, wire insertion, interconnect lug brazing, and varnish impregnation processes.
- Developed detailed assembly and testing documentation to support stator manufacturing processes.

SCHEIDT & BACHMANN (ENTRY LEVEL)*PARKING SOLUTIONS AND FARE COLLECTION SYSTEMS*

MAY 1997 – OCTOBER 2002

BURLINGTON,

MASSACHUSETTS

PROJECT ENGINEER

- Developed a trouble shooting work bench for component failure analysis, boosting diagnostic efficiency.

GENERAL ELECTRIC (COOPERATIVE)*AIRCRAFT ENGINES*

JANUARY 1994 – DECEMBER 1995

LYNN, MASSACHUSETTS

QUALITY CONTROL ENGINEER

- Assisted the product quality group, acquiring foundational knowledge in machined parts production.

EDUCATION

CLARK UNIVERSITY, WORCESTER MA – MBA, General Management

MAY 2015

NORTHEASTERN UNIVERSITY, BOSTON MA – BS in Industrial Engineering

JUNE 1999

CERTIFICATIONS

SAE INTERNATIONAL – AS9100D Lead Auditor Training

DECEMBER 2024

NORTHEASTERN UNIVERSITY, BOSTON MA – BS in Industrial Engineering

JUNE 1999

KEY SKILLS

MANUFACTURING PROCESSES – PCBA, electric motors, battery / cooling systems, composites and injection molding**SUPPLIER MANAGEMENT** – Monitoring KPIs (On-Time Delivery, First Pass Yield), Supplier Audits / Score Cards**VALUE ENGINEERING** – Line Balancing, Lean Manufacturing, Product Cost Negotiation / Optimization**CAD & PLM SOFTWARE** – Auto CAD, 3D CAD / GD&T (Solid Works, NX), Siemens Teams Center, Agile**QUALITY STANDARD & TOOLS** – ISO 9001, AS9100, IPC-610, APQP, PPAP, Gauge R&R and FMEA methodologies