

## ALAN J. ARENA

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### ASQ CERTIFIED QUALITY ENGINEER, CERTIFIED SIX SIGMA GREEN BELT

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Extensive background in Quality Management Systems and quality assurance methods implementation for fabrication / assembly operations. Accomplished in quality process planning for new product launches, First Article Inspection, SPC implementation and quality trend analyses. Served as Internal Auditor for ISO 9001 and CMMI compliance. Excellent communication skills with all levels of management, production teams and customers. Areas of expertise include:

- Team problem solving
- Performance management
- Internal Auditing
- **DOD Secret Clearance**
- First Article Inspection Planning
- Teambuilding for continuous improvement
- ISO9001 / CMMI Compliance
- Root Cause/Corrective Action
- Six Sigma Team Member
- Supervision, Coaching

Technical Skills: Lean Six Sigma, MS Office (Word, Excel, PowerPoint), TIPQA, GD&T, SPC, EVMS, PFMEA

### EMPLOYMENT HISTORY

**GENERAL DYNAMICS AMPHIBIOUS SYSTEMS**, Woodbridge, VA

2/01 – Present

**QUALITY ASSURANCE SUPERVISOR** (9/04 – Present)

Supervise a multi-service Quality Assurance staff (up to 12) providing support in supplier quality, software quality, receiving inspection, calibration, in-process assembly inspection, final inspection and test. Manage departmental budgets and customer (PMAAA and DCMA) relations. Update QA internal procedures and processes for continuous improvements. Coordinate Failure Report corrective actions for internal operations and field operations.

- Coordinated the final test and acceptance of 17 Expeditionary Fighting Vehicles in support of US Marines Operational Assessment and readiness for production.
- Developed internal procedures and conducted internal audits for compliance to ISO 9001:2008 and CMMI standards resulting in achievement of Third Party certification.
- Controlled departmental budgets, including manpower loading, using EVMS Methodology.
- On-time submittal of proposals in support of QA tasks.

**QUALITY ASSURANCE ENGINEERING SPECIALIST** (2/01 – 9/04)

Manage inspection planning for the U.S. Marines' EFV and MK46 Navy Turret supporting design validation and verification. Serve as Prototype Vehicle Acceptance Test Engineer performing functional integration acceptance tests prior to field operations. Train QC inspectors and QA engineers on processing Nonconforming Material. As Material Review Board QA Lead oversee nonconformance documentation and coordination of root cause / corrective action initiatives. Perform internal audits for ISO 9001-2000 implementation and conformance. Incorporate quality requirements in Critical Item Specifications for key components. Configuration Control Board member responsible for quality assurance review of Engineering Change Requests.

- Developed procedures in support of ISO 9001:2000 implementation, developed audit plans to assure conformance and co-leader of Gap Analysis Team.
- Collaborated with Integration & Assembly working corrective actions to achieve a 20% reduction in defects during developmental vehicle assembly and test.
- Successful on-time completion of First Article Testing of MK46 Weapon Station for US Navy.

**ALAN J. ARENA**  
**ATP MARION COMPOSITES, Marion, VA**  
**PROJECT ENGINEER (7/97 – 10/00)**

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3/86 – 10/00

Coordinated fabrication process planning including work instruction, bill-of-materials, supplier selection and tooling development for high-volume production of A330/A340 Airbus Wing Fairings. Maintained material usage within program budgets. Addressed technical issues with customers and material suppliers. Promoted process improvement implementation.

- Implemented material and process changes to achieve annual savings of \$75K. Trained new composite fabricators and shortened their learning curve by 25%.
- Obtained 98% accuracy in Airbus Program bill-of-material, reducing raw material costs by 15%.
- Worked directly with production operators to exceed program labor standards.

**TQM FACILITATOR (11/95 – 7/97)**

Established and supported TQM teams through training on problem-solving methods and providing resources to support project implementation. Served as company mentor for SPC procedure development and for plant-wide implementation. Supported the ISO 9001 Gap Analysis Team.

- Developed TQM training programs that fostered team-building and improved employee confidence through empowerment initiatives.
- Facilitated 7 TQM teams, resulting in projects that saved in excess of \$150K in annual costs.

**QUALITY ASSURANCE ENGINEER / SUPERVISOR (3/86 – 11/95)**

Implemented Quality Assurance processes to assure compliance with customer requirements. Performed DOE for composite material defect analysis and characterization. Proved out tooling and processes prior to production by thorough First Article Inspections. Served as customer liaison for quality assurance issues. Planned for special inspection and test equipment to promote efficiency. Provided technical and administrative assistance to a staff of 10 Quality Engineers and 5 Quality Technicians.

- Reduced Cost-of-Quality up to 80% on assigned programs. Decreased appraisal costs 40% by implementing operator verification and internal audits. Performed First Article Inspections that reduced start-up costs by 30% on various programs.
- Implemented plant-wide operator verification methodology and reduced appraisal costs 25%.
- Held a FAA Repairman License for composite structures and DMIR for commercial programs.

**PRIOR EXPERIENCE**

**SIKORSKY AIRCRAFT, Stratford, CT**

5/77 – 3/86

**PRODUCT INTEGRITY ENGINEER / QA PROGRAM MANAGER** – Quality planning for X-Wing program, member of S-76 Production Change Board, supported problem-solving teams in composites manufacturing and developed quality processes for advanced composite helicopter programs. Established in-process inspection methods for composite components. Implemented a specialized sampling process for destructive testing major assemblies resulting in annual cost savings of \$50K. First Article Inspection/Acceptance with FAA for S-76 components resulted in a 100% Acceptance rate.

**ACADEMIC CREDENTIALS**

**Masters of Engineering Management** – Old Dominion University, Norfolk, VA

**BS Mechanical Engineering** – University of Bridgeport, Bridgeport, CT

**PROFESSIONAL AFFILIATIONS**

American Society for Quality (ASQ)

Toastmasters International – Competent Communicator