

# **Adrian Stephan**

## **Logistician**

**A recognised and published global expert with over 40 years experience in the field of innovative technology practices, ILS/LSA acquisition, process analysis and sustainment functions.**

### **Foundational Skills**

- Technical communication through written reports and training material
- Specialty engineering : RAM, quality, asset control
- Qualitative and quantitative data analysis
- Interdisciplinary systems analysis
- Engineering economics: through life cost
- Risk, vulnerability & resilience analysis

### **Experience Background**

Adrian is a practising logistician with over 40 years experience in the maintenance and support analysis of a wide range of mechanical and electronic technologies. He has ported his Industrial skills experience into the academic world generating a unique value proposition combining best of breed and disruptive technology theory with real world application and productivity experience.

He cut his teeth as a tradesmen and engineer with 20 years RAAF experience working on a wide range of high technology maintenance, logistics, and capital equipment programs. He functioned initially at technician level acquiring valuable skills at the tool level before attaining engineering status at the management and decision support level. He has experience across an array of flight line, maintenance shop, manufacturing facilities and logistics depot functions.

He formed his own company, Logistics Pty Ltd, in 1987 extending his experience base into an increasingly wide range of logistics and maintenance software & technology systems, industrial processes & management functions. He worked across several industry sectors including mining, transport, utilities, academia, and defence. In addition, he regularly provides post graduate programs for major universities on asset, reliability & quality related disciplines as well as being a published author, trainer and practitioner on advanced LS/LSA practices.

Adrian's 40 year career has generated an unparalleled wealth of knowledge in engineering, maintenance, reliability, availability, maintainability, integrated logistics support and logistics support analysis. His specialist industrial sectors include defence, industry across the mining and transport sector and academia.

### **Experience Summary**

Adrian is an experienced engineer, manager, leader and consultant, offering an extensive range and depth of logistics experience in technology based projects. He has developed very sound working relationships with Australian domestic and international customers in the US, Middle East and SE Asia.

He is experienced in team and management roles and enjoys working in conceptual, difficult, and challenging environments. In addition to team work he is very comfortable working in autonomous situations. He is a results orientated team player with a commitment to continuous improvement, self-development, and mentoring of other team members; a well as engaging with the wider stakeholder community.

He has excellent written and oral communication skills and his work is delivered with critical attention to detail, rigor and quality.

In various roles and in different industries Adrian has applied his expertise in consulting, training, ILS/LSA methods, through life cost, asset management, configuration management, CALS, Reliability, Availability and Maintainability (RAM), dependability management, obsolescence management, counterfeit parts awareness, technical spares assessing, technical plans authoring, and maintenance analysis and plans (e.g. RCM/TPM). He was a member of the team that developed the RCM standards SAE JA 1011 and SAE JA 1012, and also the development of IEC 62402 on obsolescence management.

He is able to develop work plans from desk top reviews, interpretation of drawings, technical publications, product literature, and any legislative requirements such as hazard analysis or safety cases.

Adrian is a strong advocate to develop advanced skills in the work place. He has developed peers and subordinates, conducted workshops, and enjoys nano-learning opportunities to impart core knowledge quickly. He is highly motivated to succeed and will encourage others to do the same.

## **Qualifications**

- Master of Management [Operations Research] (Monash University)
- Graduate Diploma Management (Royal Melbourne Institute of Technology)
- Certified Professional Logistician (SOLE - International Society of Logistics Engineers)
- BSZ40918 Cert IV Workplace Training (Chisholm)
- Numerous short courses on ITAR, EAR, configuration management, RCM, etc

## **Skills Currency**

Adrian is continuously involved in developing profession skills in both a business and academic capacity. In addition to providing innovative options to clients and supporting postgraduate students, he is currently writing his doctoral thesis on accounting for maintenance.

## **Career Objectives**

- To achieve the highest standard of work by adhering to established processes and procedures, however challenging them when necessary to provide continuous improvements within the workplace.
- To lead and manage projects by delivering innovative, rigorous and relevant solutions to the client.
- To be relevant to the client

## **Work History**

The work history is presented in two parts. The first part is an overview of relevant work history and the second part is the consolidation of work activities and their relevant industry. Work was mainly provided as short term subject matter expertise activities across multiple clients and over multiple times. The consolidation shows the work history by activity. The consolidation based on activity provides the skills insight. The consolidation is grouped in three sectors of work: consulting, short course training and academic courses. The last 5 years have involved a significant allocation of time for doctoral research and this reduced work capacity.

## **Work History Overview**

Some relevant examples of experience include Industry, ADF and Logistics Pty Ltd activities.

Adrian served as an engineering officer in the Technical Spares Assessing Capital Projects Division. In that position he designed, developed and contracted for the first "database" in the RAAF for the

## **Logistics Pty Ltd - Adrian Stephan – General Capability Summary**

collection, management and processing of logistics data. (data bases didn't exist at the time) He also developed the core algorithm for spares assessing which was then further developed. It was the standard model for many years. Projects he was involved in during this time were Pavetack, Kedah (ATC at Butterworth), F111 RHAWS and High Altitude Camera. He then spent 3 years at General Dynamics at Fort Worth on the Pavetack program where he was involved in contract negotiations with many suppliers. On return to Australia he was posted to Maintenance Policy Division Canberra where his duties included maintenance policy analysis and administrative oversight of the revamp of the maintenance management systems.

As Logistics Pty Ltd, Adrian has been involved in many projects; some relevant examples that involved the use and application of advanced integrated logistics support skills are:

- Development of the Cost Schedule Control System Criteria (CS2 and now earned value) to account for the inventory at Williamstown Naval Dockyard. This was a complex process including many stakeholders.
- Carried out many diverse studies, wrote technical reports and prepared training material for rail maintenance systems, coal fired power stations, hydro power stations, FPSO Integrity management, off shore platform safety case, CSG logistics, and RAM studies for vehicles.
- Supplier of life cycle cost, spares planning and integrated logistics support analysis software to the ADF. This provided the extensive database for ADF logistics analysis. It is still in service. This was an intensive program and instilled the analytical skills and data referential integrity; particularly as a lot of tailoring was required. We also sold this product to Singapore MINDEF.
- Engaged by IAI for the configuration management support of the conversion of the B-707 to aerial refueling capability.
- Setup the initial configuration management system for the Thompson Radar Air Traffic Control system being installed in Australia. This involved 3 months located in Paris. This involved the need for the ability to administer complex data systems such as air traffic control.
- Engaged by Westinghouse and subsequently Northrop Grumman for the development of strategic logistics analysis of an advanced airborne radar system (MESA) that was at the concept stage of development. This radar is now in service as Wedgetail. A subsequent engagement involving both Northrop Grumman and Boeing was the alignment of technical documentation.

## **Work History Consolidation**

### **Contract Activities**

Adrian has undertaken the following activities. All examples are the delivery of activities in support of the acquisition and sustainment phases of product life. These are principal activities and were usually carried out multiple times for different clients.

<b>Activity</b>	<b>Description of Activity</b>	<b>Typical Client</b>
Configuration Management	<ul style="list-style-type: none"><li>• Provide configuration management advice.</li><li>• Develop configuration management records and reports.</li><li>• Application of configuration principles to the work in hand.</li></ul>	APLNG Boeing Thales
RAM	<ul style="list-style-type: none"><li>• Provide qualitative and quantitative analysis.</li><li>• Provide strategy guidance at the acquisition stage.</li><li>• Provide guidance at the sustainment phase.</li><li>• Write reports.</li><li>• Interpret reports and apply details.</li><li>• Projects inclusive of military vehicles, mine haul trucks, radar systems</li></ul>	Boeing Thales Northrop Grumman APLNG BHPBilliton
RCM/TPM	<ul style="list-style-type: none"><li>• Undertake qualitative and quantitative studies,</li><li>• Interpret and apply outcomes,</li><li>• Provide guidance at the sustainment phase.</li></ul>	Boeing Thales APLNG BHPBilliton

# Logistics Pty Ltd - Adrian Stephan – General Capability Summary

	<ul style="list-style-type: none"> <li>• Write reports.</li> <li>• Interpret reports and apply details.</li> <li>• Projects inclusive of military vehicles, mine haul trucks, radar systems.</li> <li>• Develop precision maintenance strategies.</li> </ul>	
Technical Reports	<ul style="list-style-type: none"> <li>• Prepare and interpret logistics reports.</li> <li>• Prepare and interpret management reports.</li> <li>• Manage work for compliance with reports as required.</li> </ul>	Boeing Thales BHPBilliton
Life Cycle Cost	<ul style="list-style-type: none"> <li>• Perform analysis.</li> <li>• Use standard tools</li> <li>• Develop ad hoc tools</li> <li>• Interpret LCC data</li> <li>• Provide decision advice</li> </ul>	Most clients
Organization	<ul style="list-style-type: none"> <li>• Organize work and work plans</li> <li>• Check status of work</li> <li>• Write reports</li> <li>• Respond to reports timely</li> <li>• Provide timely reports</li> <li>• Advise on required resources</li> <li>• Attend meetings</li> </ul>	Most clients and in different ways. Able to organize and manage workload and resource constraints.
FMECA/FTA Studies	<ul style="list-style-type: none"> <li>• Tailor a FMECA program.</li> <li>• Identify risks, constraints, gaps, and degree of completeness.</li> <li>• Prepare FMECA reports for decision making.</li> <li>• Prepare FMECA data for upload to LSAR,</li> <li>• Test outcome for standard LSA report.</li> <li>• Test outcome for any vulnerabilities.</li> </ul>	Thales Boeing APLNG BHPBilliton
ILS/LSA	<ul style="list-style-type: none"> <li>• Prepare and respond to planned and standard reports.</li> <li>• Carry out activities to meet the deliverable such as:</li> <li>• Cost, maintenance, LORA, FMECA, PHS&amp;T, spares modelling, technical data and documentation</li> <li>• Identify required resources.</li> <li>• Attend meetings.</li> <li>• Identify critical issues such as resources required, vulnerability and resilience</li> <li>• Test to make sure the ILS/LSA is an integrated process.</li> </ul>	Thales Boeing Raytheon APLNG BHPBilliton

## Short Course Activities

Adrian has developed and presented a range of short courses in Australia, SE Asia, Europe, and Middle East either in house or public delivery. All short courses were for 2 or 5 day duration, Feedback was all very positive. Presentation required skills to deal with diverse cultural needs.

- Configuration Management,
- Design to Cost,
- FMECA, FTA,
- ILS, LSA,
- LCC,
- LORA,
- Maintenance Planning and Budget,
- Product Management,
- RAM
- RCM, TPM,

- Spares Planning,

Typical clients for these courses include:

- Applied Technologies SG
- BAE
- Boeing
- Informa
- Northrop Grumman
- PROMIS Group UAE
- Qatar Petroleum
- Qatar Steel
- Queensland Health
- Raytheon
- Singapore Technologies SG
- Thales
- Toyota Boshoku

## Academic Activities

### Monash University (now Federation University)

Adrian has developed, presented and examined a unit in Reliability Engineering at the Graduate Diploma and & Masters Level. This course has been delivered on-line for over 20 years. This requires high skills in the virtual delivery of teaching and examining. These skills are transferable to virtual access for project management.

### QUT

Adrian has developed, presented and examined the following courses at the stated level.

- Rail Infrastructure – Asset (Masters Level)
- Asset Management (UG Level))
- Facility Management (Masters Level)
- Total Quality Management (Masters Level)

### USQ

Adrian has developed, presented and examined the following courses at the stated level by distance education. This requires high skills in the virtual delivery of teaching and examining. These skills are transferable to virtual access for project management.

- Business Logistics
- Whole of Life Facilities Management
- Strategic Management
- Project Sustainability Management
- Project quality procurement and risk management
- Writing supply chain, logistics & operations management modules

### UWA

Adrian has developed, presented and examined the following course at the stated level by distance education. This requires high skills in the virtual delivery of teaching and examining. These skills are transferable to virtual access for project management.

- Asset Management Oil & Gas (Masters)

## Accrued Skills & Interests

- Analysis and Improvement studies
- Analytic skills – understand and generate algorithms.
- Asset & Facility Governance & Support
- Complex organization mastery
- Configuration management
- Counterfeit parts management.
- Data analysis
- Data and information codification & terminology
- Data cleansing and referential integrity

- Engineering Economics: through life analysis
- Failure Mode Effects Criticality Analysis (FMECA)
- Failure Reporting & Corrective Action System
- Item Unique Identification - IUID
- Life Cycle Cost – Whole of Life Cost
- Logistics Methods - ILS, LSA, Value Chain
- Maintenance management systems
- Obsolescence Management
- Process Methods, Procedures, Reviews, & Assessment
- Project management – CPM, PERT, EVM, CCPM
- Reliability, Maintainability & Supportability
- Report writing
- Team leadership
- Training, Writing and Research
- Negotiating skills – team member
- Obsolescence management.

## **Role & Function Guidelines**

Generally, Adrian's extensive experience is applied as a technical communicator through written reports and analysis.

Adrian's extensive background makes him well suited for any position involving project involvement, ILS/LSA, configuration management, and interdisciplinary stakeholders.

His extensive practitioner and research skills can be applied to the specific needs from basic to advanced levels of complexity for **legacy, current and future** needs & decisions.

## **References**

References are available on request.

## **Contact Details**

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