



# VULNERABILITY

## ASSESSMENT GROUP

# **Vulnerability Assessment Group**

## **Capability Statement**

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## Attachment 1 CV's of Key Personnel



# **1 GOOD CORPORATE GOVERNANCE**

Director liability, regulatory requirements, technology convergence and security concerns have caused many companies to question their existing risk management position.

VAG provides a unique framework and the supporting skill sets to manage risk, demonstrate good governance and develop a business case for risk mitigation by quantifying both statistical and asymmetric threats.

## **2 VULNERABILITY ASSESSMENT GROUP (VAG) OVERVIEW**

VAG is an independent risk management consultancy. We employ a unique cross disciplinary team of qualified individuals with specialized skills and experience in Strategic Security Management, Information Technology Management and Engineering. Our personnel have diverse backgrounds with experience at the highest levels of business, government, security and academia.

## **3 CRITICAL INFRASTRUCTURE PROTECTION**

### **3.1 Overview**

With strong engineering exposure VAG routinely assists companies to develop security focused risk assessments. The key to communicating risk and developing a security business case is quantifying risk in accordance with Hazard Identification (**HAZID**) and Hazard and Operability (**HAZOP**) studies. VAG has built its security based HAZID / HAZOP process through the application of safety and risk engineering workshop principles and our proprietary framework for risk quantification.

### **3.2 Physical and IT Network Focused Vulnerability Assessments**

Mapping vulnerabilities from both a physical and IT network perspective is essential for critical infrastructure operators due to interconnectedness; convergence; cyber attacks; activism; physical attacks and terrorism.

VAG provides a framework for examining vulnerability and mapping interconnectedness from a network perspective. Examining a series of power generating stations, a gas pipeline or components of a SCADA system requires a systematic process and consistent approach both of which are supported by our framework.

### **3.3 Security Based HAZIDs / HAZOPs**

Our unique process is embedded in a secure software program that has been recently recognised through the Australian Department of Transport Security Division and the Australian Commercialization of Existing Technologies (Commonwealth funded) Program. Our software provides a framework to incorporate the corporate risk thresholds of our clients



allowing VAG to map out security events, determine risk and allocate resources in line with corporate policy.

Key to any security based assessment is the confidentiality of the data – our process ensures confidentiality by encrypting all security risk information to ensure that the integrity of our clients' vulnerabilities is maintained.

### **3.4 Projects**

We have conducted numerous projects for a range of Critical Infrastructure Providers to include:

- Security in Design input (how to build new facilities with security principles as part of the basis of design (BOD))
- Security Management System – input into how security is communicated across the entire company
- Offshore & Onshore Security Risk Assessments
- Sub Sea and Land Based Pipeline Security Risk Assessments
- Country Risk Analysis – reports on country specific risks
- Emergency Response Procedures – security based information and journey management for personnel travel overseas

### **3.5 Clients**

The following outlines our exposure with Critical Infrastructure Operators. Referrals can be obtained on request.



	Safety and Risk HAZID / HAZOP	IT / SCADA Computer Network Vulnerability Assessment	Security in Design (Basis of Design (BOD) Input)	Intentional Explosion Analysis Modeling	Security Management Analysis Development	Pipeline Security System Assessment	Port Facility Security Risk Assessment	Onshore Facility Security Risk Assessment	Offshore Facility Security Risk Assessment	Onshore Facility Security Plans	Offshore Facility Security Plans	Ship Security	Legislative Compliance (ISPS Code / MTOPSA) 2003	Emergency Response Plans / Procedures	ISPS Model Course Training	Crisis / Emergency Management Training	
Agility					X								X		X		Roma to Brisbane Pipeline
Australian FPSO Management								X		X	X	X	X	X			Four Vanguard
BHPBilliton (Petroleum)							X		X		X	X					Tubridgie Gas Plant / Griffen Export Facility / Griffen Venture, Stybarrow Venture / MV Carp
ConocoPhillips			X		X		X	X	X	X	X	X	X	X			Bayu Undan (CPP, WP1, FSO), Darwin LNG Facility
Dampier to Bunbury Pipeline		X				X											WestNet / DBNGP
ENI	X		X		X	X	X	X	X	X	X		X		X		Blacktip
ExxonMobil							X		X		X						Barry Beach Marine Terminal / Wandoo
Frontier Drilling												X	X				Frontier Duchess, Frontier Discovery
Inpex	X		X		X			X									Ichthys
Kleenheat Gas													X			X	Corporate / National Training, Kwinanna Facility
Maersk											X			X			Maersk Ngujima-Yin
Modec											X	X		X			MV-11, MV-16, MV-1
Santos								X	X	X	X		X		X	X	Moomba Facility / Modec Venture 11
Summit Fertilizers				X													
TK Shipping											X	X	X				Karratha Spirit / Dampier Spirit
Unocal							X		X								Erawan (CPP, Airfield, FSO) Songkhla Air Field / Supply Base
Vermilion								X		X		X					Wandoo A/B
Wesfarmers Energy																X	
Woodside Energy			X		X	X	X	X	X	X	X	X	X	X			Karratha OGP, Pluto, GWA, NRA, Cossack Pioneer, Northern Endeavor, Otway OGP, Thylacine A, Ocean Legend, Angel, Vincent Trunkline, King Bay Supply Base



## **4 RISK MANAGEMENT TOOLS**

### **4.1 Strategic Security Management**

#### **4.1.1 Security Auditing**

VAG routinely assists companies assess their critical infrastructure. As independent 3<sup>rd</sup> party auditors, VAG provides a holistic review of the effectiveness of security systems by working closely with clients to understand their operations. Site surveys and operational reviews provide clients with current security best practice input as well as a comprehensive threat assessment based on the company's geopolitical exposure.

#### **4.1.2 Security Risk Assessment**

Security Risk Assessment workshops are applicable to individual facilities / business units (BUs) or critical components of IT / control systems and provide a means of systematically identifying potential vulnerabilities and existing company security threats. The risk assessment is a qualitative process that uses pre-agreed risk ranking criteria to identify vulnerabilities and develop mitigation measures.

Establishment of the company context is the most critical part of the assessment process as it defines the expectations and methodology. The workshops provide facilitated brain storming sessions that use relevant company operational and senior management personnel to identify targets and security scenarios – examining consequences against vulnerabilities.

Workshops serve to develop a baseline for security risks which allow the company to formalise security as part of its overall risk management framework. Risk assessment reports capture findings, recommendations and responsibilities and provide an auditable trail that demonstrates to the board, audit teams and regulators that the company actively fulfils its duty of care by identifying and managing security risk.

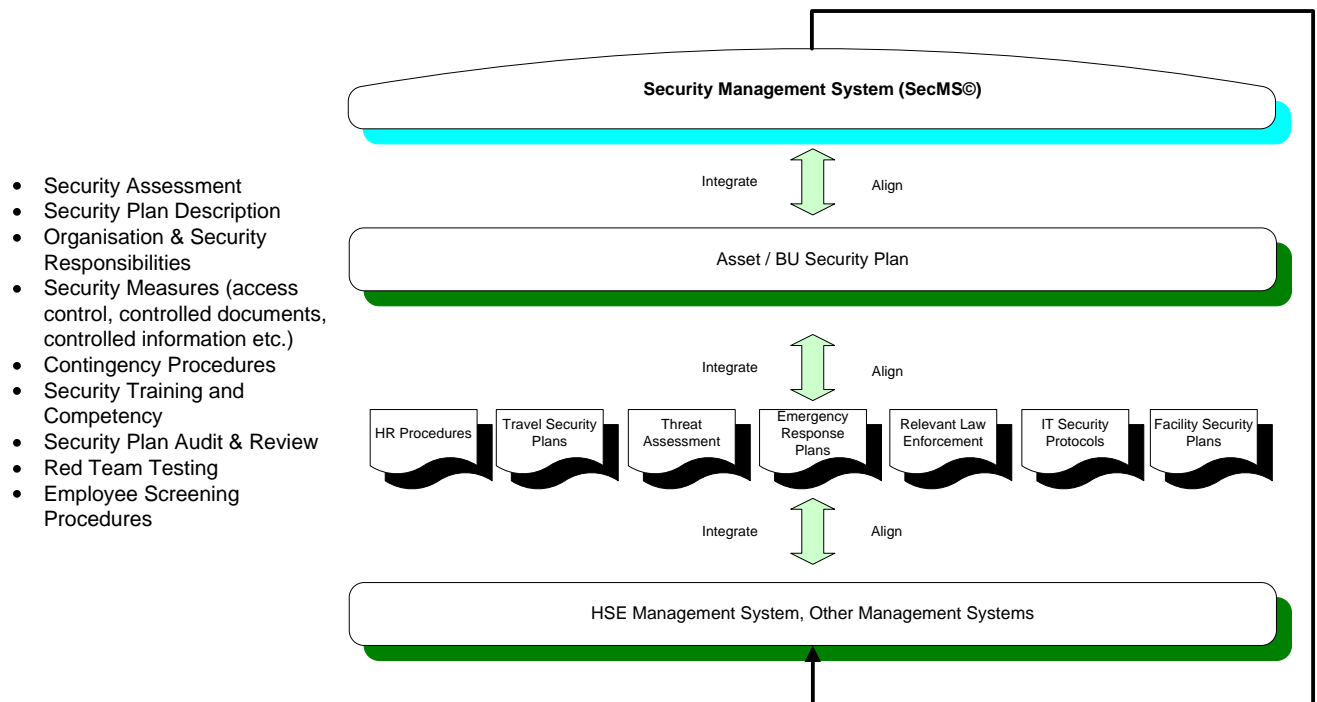


### 4.1.3 Security Management Systems (SecMS©) Development

Security Management Systems (SecMS©) are a whole of organisation approach to security formalisation. Designed in accordance with international risk management standards, a SecMS© systematically formalises security in an organisation while taking into account existing processes and policies (from the IT, HSE and other management systems). With broad experience across the oil and gas, mining and transportation industries, VAG is well positioned to assist companies:

- Identify what is critical to the organisation;
- Identify business continuity dependencies;
- Treat security gaps; and
- Integrate and align relevant information into a formalised system.

The following diagram depicts the formalisation process:



- Security Assessment
- Security Plan Description
- Organisation & Security Responsibilities
- Security Measures (access control, controlled documents, controlled information etc.)
- Contingency Procedures
- Security Training and Competency
- Security Plan Audit & Review
- Red Team Testing
- Employee Screening Procedures



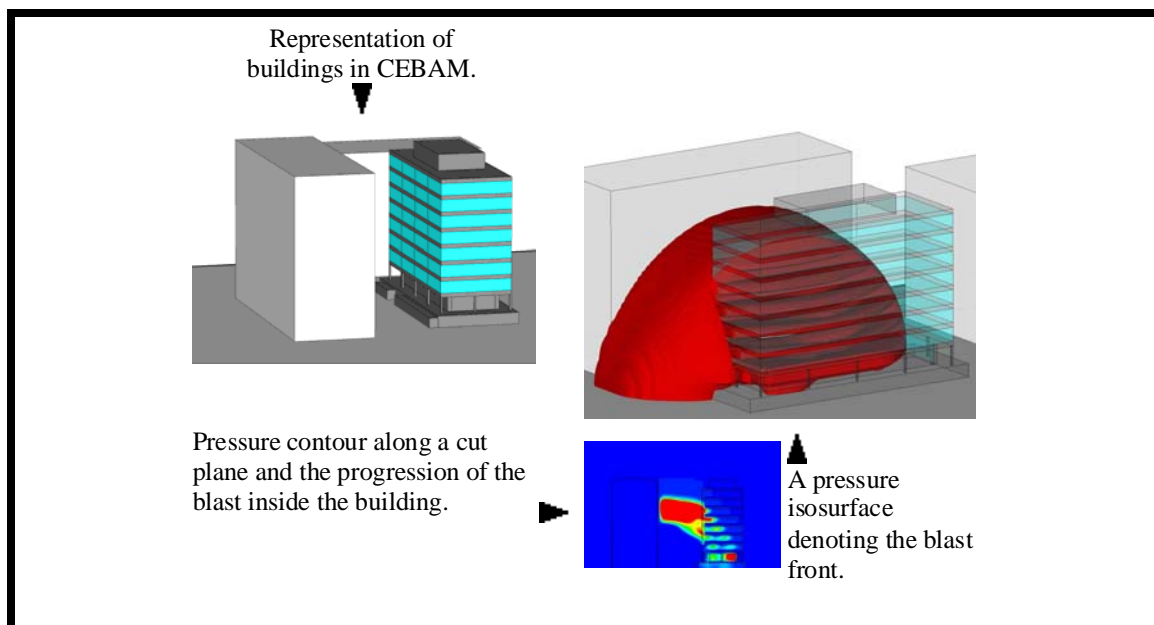
#### 4.1.4 Engineering Analysis and Explosion Modelling

Whether examining vulnerabilities identified during security risk assessments or modelling accidental explosion events of existing hazards, VAG can determine the result through analytical and computational engineering models.

Recent models have been developed for:

- Anti-Terrorism Threat Analysis;
- Industrial Explosion Hazard Assessment;
- Explosives Safety and Protective Design; and
- Weapon Systems Evaluation.

Using a tailored graphical interface we can construct a virtual representation of any facility and calculate the resulting blast loads. During model construction, we can define failure criteria for structural components and the graphical output will show whether failure has occurred.



Working with intelligence data or facility procedural information we can determine the blast loadings on structures and equipment, assess the damage and work with security personnel to formulate perimeter security and vehicle search strategies.

VAG can model blast events in complex 3-D environments (large urban areas) to provide information to first responders regarding evacuation, marshalling and command and control placement.



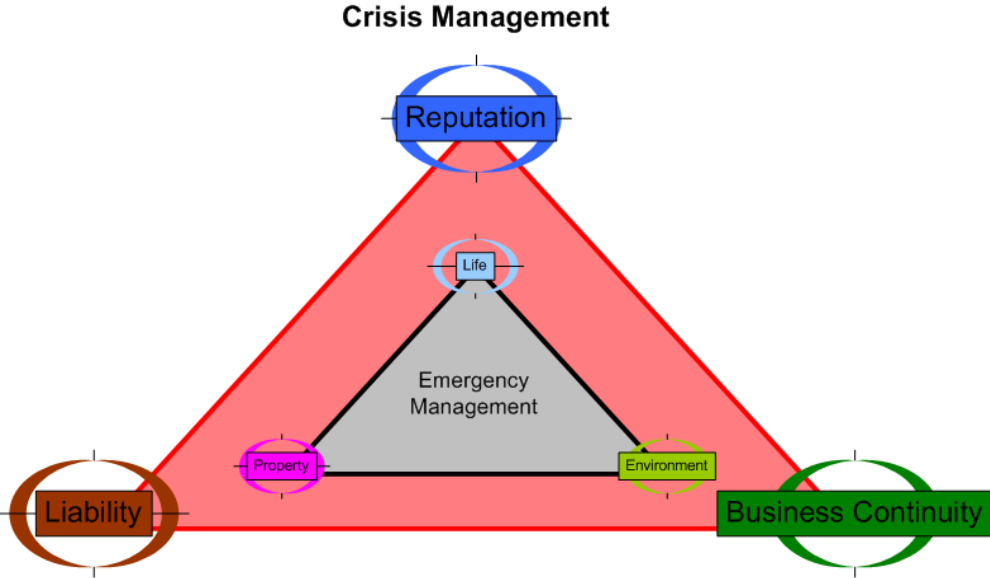


# 5 CRISIS AND EMERGENCY RESPONSE TRAINING

## 5.1.1 Team Simulations

In order for an organisation to effectively deal with unforeseen events it must be trained in its roles and responsibilities. Proactive training engenders self assurance and team work amongst the staff imparting a positive 'can do attitude' which develops confidence in the plan and in the organisation's ability to deal with difficult situations.

VAG provides a training package that focuses on team members and generating a greater understanding of their roles and responsibilities as outlined in their plan, as well as providing an environment (through exercise simulations) where the team can practice the management of multiple stakeholders which may include: Media; Staff; Regulators; Next of Kin; Clients; Partners; and Industry Bodies.



## 5.1.2 Auditing and Review

VAG regularly reviews procedural documentation and acts as an independent auditor during client run crisis management and emergency drills. Our personnel provide industry experience and can benchmark plans and competencies against international standards.

## 5.1.3 Plan Development

VAG has extensive experience in benchmarking and writing both Emergency Response and Crisis Management Plans. Our plans are tailored to suit the organisation and can be incorporated with the Incident Control Systems (ICS) or other existing company standards to suit the company's individual emergency and crisis management structure.



## 6 MARITIME SECURITY COMPLIANCE

### 6.1.1 Offshore Facility, Ship, Port Facility and Port Security Plans

VAG has developed numerous port, port facility and ship security plans in accordance with the International Maritime Organisation (IMO) International Ships and Port Security (ISPS) Code. VAG conducts the security risk assessment in accordance with the relevant contracting government / flag state requirements. The security plans are developed through a three part process which includes:

- Security Audit / Operational Review;
- Security Risk Assessment Workshop; and
- Security Plan Development.

The security plans are developed in accordance with the IMO guidance and identify roles and responsibilities as well as mitigation measures for security risks during Maritime Security (MARSEC) Levels 1 – 3.

### 6.1.2 ISPS Course Training

VAG offers training which complies with IMO ISPS requirements for:

- Company Security Officer;
- Offshore Facility Security Officer;
- Port Facility Security Officer; and
- Ship's Security Officer.



**Maritime Security ISPS Code Training**

**COMPANY SECURITY OFFICER (CSO)  
PORT FACILITY SECURITY OFFICER (PFSO)  
SHIP SECURITY OFFICER (SSO)  
OFFSHORE FACILITY SECURITY OFFICER (OFSO)**

**Why train personnel as Security Officers ?**

In response to the growing threat of global terrorism, new measures relating to the security of ships and port facilities has been adopted by the IMO. A new chapter has been added to SOLAS and there is a new code called the "International Ship and Port Facility Security (ISPS) Code". Part A of the code will be mandatory. Part B provides guidance for the Code. However, some Port States may require mandatory compliance to both Part A & B of the Code. The deadline for compliance with the requirements of the ISPS Code is 01 July 2004.

Sections 17 of Part A of the ISPS Code requires that a Port Facility Security Officer (PFSO) shall be designated for each port facility, with various duties and responsibilities related to maritime security. The PFSO may be designated for one or more port facilities. Section 18 of the ISPS Code in both Part A & Part B lays out the requirements for training, drills & exercises for the PFSO. It is clearly stated that the Port Facility Security Officer should have appropriate knowledge through training in the regulatory, implementation and security defined therein.

With so many port facilities requiring to train their security personnel and selected senior staff as PFSO's in a short time frame, it is essential that your Company provides the required training as soon as possible. This will assist you to achieve a quick and smooth implementation through the efforts of these trained personnel.

**Course Objectives and Benefits**

- This course meets the requirements of the ISPS Code Part B Section 18.1 & 18.2, including additional requirements set by the U.S. Coast Guard and other relevant U.S. authorities.
- The course has been developed, reviewed and controlled by three respected & recognized professional bodies:
  - Security & anti-terrorist experts, who have conducted RSO training and consulted Heads of State, Government Agencies, Port Facilities & Shipping Companies in maritime security matters.
  - Maritime training & operations experts, who were part of the group that wrote the ISPS Model Courses for IMO.
  - Maritime risk assessment, management systems, port operations, auditing, inspection, certification and legislative experts.
- Upon proper completion of the course, the participants would have gained a thorough knowledge of maritime port security requirements. They should also be in a position to carry out port security assessments, develop port security plans, conduct in-house training for other port facility personnel having specific security duties, as listed in Sections 18.2 and 18.3 of Part B of the Code, and awareness training for other port personnel as necessary.
- Vulnerability Assessment Group\* will issue Certificates to participants on successful completion of all the course requirements.

**Who should attend ?**

- Port Facility Staff likely to be designated as a PFSO and those assisting the PFSO in the implementation of the plan.
- Senior manager, quayside or office supervisors, who need the knowledge for effective implementation.
- Interested person from maritime, offshore and port industry organizations seeking to gain a deeper knowledge.

 **VULNERABILITY ASSESSMENT GROUP**



## ATTACHMENTS



**Attachment 1**  
**CV's of Key Personnel**

# Chandler Comerford GAICD

## Director

### KEY SKILLS AND EXPERIENCE

As a director of the Vulnerability Assessment Group, Chandler is responsible for development of the group's methodologies including: crisis and emergency management training; crisis and emergency management auditing; security assessment process; intelligence review process; site survey process; risk assessment workshops; and systematic engineering analysis. Chandler is committed to client confidentiality, providing quality analysis and risk mitigation solutions.

As a former US Special Forces Officer (US Navy SEAL) Chandler has extensive experience with unconventional warfare and terrorism in the maritime environment. As a member of the Special Operations Command Pacific Joint Combined Exercise Training Team (JCET), Chandler worked as a Military Advisor training foreign Special Forces groups throughout South East Asia. Chandler has extensive experience in developing security plans for facilities, ports and ships in accordance with the IMO ISPS Code.

As a former safety and risk engineer with robust exposure across a range of private and government organisations he designed and implemented security and crisis management systems detailing risk and corresponding vulnerabilities, enabling the implementation of strategic policy.

With extensive experience consulting in a range of environments Chandler has conducted numerous risk assessment workshops for the offshore oil and gas, rail and maritime industries.

Chandler has recently consulted for the following companies: ExxonMobile, Woodside Energy, ChevronTexaco Australia, ConocoPhillips Australia, The Health and Insurance Commission (HIC), Wesfarmers LPG, BHPBilliton Pakistan, Sotico, Western Mining Company (WMC), the Australian Railroad Group (ARG), Santos, Rio Tinto, ENI, International Risk Consultants, Transocean, Oceaneering and Dampier Salt.

His areas of expertise:

- Crisis and emergency management
- Vulnerability assessment
- Risk management / threat assessment
- Workshop facilitation / staff training
- Policy development
- Crisis planning
- Strategic planning
- Safety and risk assessment studies
- HSE management systems auditing
- HAZID and HAZOP studies



## VULNERABILITY ASSESSMENT GROUP

### TITLE

- Director
- Research Fellow - Australian Homeland Security Research Centre

### QUALIFICATIONS

- GAICD
- Licensed Security Agent
- Licensed Security Consultant
- B.S. Oceanography "With Merit", United States Naval Academy

### INTERNATIONAL EXPERIENCE

- Australia
- USA
- Thailand
- Sri Lanka
- Philippines
- Palau
- Pakistan
- Guam
- Jordan

### ADDITIONAL SKILLS

- Anti Terrorism / Force Protection Officer (US Navy)
- Advanced Applied Explosives Course
- Basic Underwater Demolitions School (BUD/s)
- US Navy Range Safety Officer (Dynamic, Explosive, Static)
- Combat Diver
- US Navy Diving Supervisor
- Survival Resistance Escape Training
- Military Free Fall Parachutist
- Long Range Maritime Operations
- Urban Reconnaissance and Surveillance
- HUET training
- Internationally Accredited PADI Divemaster

### MEMBERSHIPS

- Graduate Australian Institute of Company Directors (GAICD)
- United States Naval Academy Alumni Association
- UDT/SEAL Association



# Gerard Burke CEng, MICE

## Risk & Safety Consultant

### KEY SKILLS AND EXPERIENCE

Gerry Burke is a recognised safety and risk management authority in offshore oil and gas, with over two decades experience in the major hazard industries around the globe. He has built and led world-class safety teams in Australia and the UK, providing leadership, driving safety innovation, finding safety solutions and giving training in safety and risk. He has probably managed, delivered or worked on more Safety Cases for a wider range of facilities in more industries than anyone else in the Southern Hemisphere.

Gerry is a chartered civil engineer whose early experience was in coal mining and construction but since 1982 has worked exclusively in safety and risk. His formal training was gained with the UK Atomic Energy Authority in a diverse regulatory and advisory role for a range of reactor and radiochemical facilities plus MOD(Navy) in a period spanning the Chernobyl disaster.

His fire expertise and nuclear safety training saw him seconded to the offshore industry immediately post-Piper Alpha to kick-off risk assessments of oil platforms. He was present at the genesis of the UK Offshore Safety Case regime and has followed its development there and in other countries since. He left government service in 1990 to hold key technical and managerial roles with leading safety consultancies including DNV, Atkins and IRC. He consults to the energy, resources and transportation sectors on risk and safety matters.

Today he is interested in lifecycle management of safety and risk from pre-feasibility through to decommissioning and abandonment. He is concerned with the efficient management and effective use of safety information by organizations. He is particularly intrigued by the risk-based decision-making processes used in the boardroom and at the coalface.

His skills and experience include:

- Leadership, management and business development
- Workshop facilitation
- Safety and risk management training
- Risk-based decision-making processes
- Safety Case development & maintenance
- Risk management and ALARP demonstration
- Qualitative risk ranking methods
- QRA and reliability assessment
- Fire and explosion analysis and engineering
- Escape, evacuation, rescue & recovery analysis
- Fixed and floating oil and gas production facilities
- Subsea facilities and pipelines
- Mobile offshore drilling units

### TITLE

- Consultant

### QUALIFICATIONS

- Chartered Engineer (1988)
- MSc Fire Safety Engineering (1983)
- BSc (Hons) Civil Engineering (1981)

### INTERNATIONAL EXPERIENCE

- Argentina
- Australia
- China
- Denmark
- France
- Germany
- Indonesia
- Netherlands
- Norway
- Monaco
- Philippines
- Singapore
- UK
- USA

### ADDITIONAL SKILLS

- Experienced Facilitator
- Offshore survival training (UK, Norway, Australia)
- HUET (UK, Australia)
- Freefall Lifeboat Training (Norway)
- Ship fire fighting & BA training (UK)
- Fire legislation & building control (UK)
- Classified Radiation Worker (UK)
- Nuclear Reactor Operator Training (UK)
- Radiological Protection (UK)
- ISRS Auditing
- Loss Causation / Accident Investigation
- QRA, FTA, ETA, FMECA, etc

### MEMBERSHIPS

- Corporate Member, Institution of Civil Engineers, UK (1988)



# Associate Professor Craig Valli <sup>PhD</sup>

## Computer and Network Security Consultant

### KEY SKILLS AND EXPERIENCE

Craig is currently the Head of School and Associate Professor (Network and Computer Security) within the School of Computer and Information Science at Edith Cowan University. Edith Cowan is a world leader in Digital Forensics, Computer and Network Security curriculum design and research. He has over 20 years experience in the IT Industry and consults to industry on network and computer security issues.

He is the Chair and Founder of the Australian Digital Forensics Conference and Co-Chair of the Australian Information Security Management Conference. Craig is Editor of Journal of Network Forensics and also a Co-Editor of the Journal of Information Warfare. He serves on numerous security related committees. Craig has over 40 publications to his name on security related topics.

His areas of expertise:

- Network Vulnerability assessment
- Network Penetration Testing
- Network Security
- Risk management / threat assessment
- Computer Forensics
- RFID
- Policy development
- Honeypots
- Intrusion Detection Systems
- Internet Misuse
- Wireless Security
- Networked SCADA Security
- Computer and Network Security Education

### TITLE

- Consultant

### QUALIFICATIONS

- Doctor of Information Technology
- Master of Management Information Systems
- Bachelor of Education

### INTERNATIONAL EXPERIENCE

- Australia
- Singapore
- UK

### ADDITIONAL SKILLS

- Computer and Network Forensics
- 

### MEMBERSHIPS

- Australian Information Security Association
- Australian Computer Society
- Australian New Zealand Forensic Science Society
- Research Network for a Secure Australia
- TISN



# Andrew Woodward PHD

## Wireless Computer and Network Security Consultant

### KEY SKILLS AND EXPERIENCE

Andrew is currently an academic at Edith Cowan University and is actively researching and teaching in the areas of wireless network security, network security and digital forensics. Edith Cowan is a world leader in digital forensics, computer and network security curriculum and research.

Andrew has an extensive publishing record in wireless network security and digital forensics, and has presented papers in Australia, the UK and the USA with a focus on information warfare and information security management. Andrew is also an editor for the Journal of Network Forensics.

Andrew has consulted to government departments, corporations and law enforcement agencies in the areas of wireless network vulnerability assessment, computer forensics, RFID security and network penetration testing.

His areas of expertise:

- Wireless network security (802.11, RFID, Bluetooth)
- Wireless and wired network vulnerability assessment and penetration testing
- Risk management / threat assessment
- Workshop facilitation / staff training
- Policy development
- Computer and Network forensics

### TITLE

- Consultant

### QUALIFICATIONS

- PhD
- BSc (Hons)
- Grad Cert. Education (Tertiary Teaching)
- Certified wireless network administrator (CWNA)

### INTERNATIONAL EXPERIENCE

- Australia
- China
- Singapore
- Canada

### ADDITIONAL SKILLS

- Systems Administrator
- Digital forensics practitioner
- Honeypots
- Compute clustering

### MEMBERSHIPS

- AISA (Australian Information Security Association)
- RNSA (Research Network for a Secure Australia) Academic Member
- ACS (Australian Computer Society)
- TISN (Trusted Information Securing Network)





# Keith Clutter <sup>PhD</sup>

## Explosive Engineering Consultant

### KEY SKILLS AND EXPERIENCE

Keith routinely performs analysis and research into explosions for petrochemical and military applications. An integral part of his work consists of developing tailored system simulation models for various engineering problems. Most recently he has been modeling car-bomb attacks against nuclear power plants and DOE nuclear fuel production centers as well as modeling potential terrorist use of LPG and natural gas storage tanks as bombs.

Keith has published numerous articles on vulnerability and anti terrorism threats in addition to vapor cloud combustion and computational fluid dynamics (CFD). He is an expert witness and has supported accident investigations through data analysis and computational simulations as well as (US Air Force sponsored) research projects studying shock-induced combustion and turbulent reacting flows.

Keith has developed and used CFD codes to model: combustion; missile system design changes; weapon effectiveness; gun blast loadings on aircraft and evaluate new technologies for integration into missile weapon systems.

His areas of expertise:

- Designing CFD modeling to predict vulnerability of facilities to include prediction of blast loads, structural design, structural response and fragment/debris throw
- Utilize CFD codes to model turbulent reacting flows for propulsion and munitions applications
- Protection of person/property from improvised explosive devices (IEDs)
- Defusing unexploded ordnance
- Project management to include system integration planning
- Analytical and numerical studies of the thermal and fluid dynamic aspects of explosions
- Workshop Facilitation / Staff Training

### TITLE

- Explosive Engineering Consultant

### QUALIFICATIONS

- Ph.D. Aerospace Engineering, University of Florida
- M.S. Aerospace Engineering, Mississippi State University
- B.S. Aerospace Engineering, Mississippi State University.
- U.S. Naval Explosive Ordnance Disposal School, Honor Graduate

### INTERNATIONAL EXPERIENCE

- Australia
- USA

### ADDITIONAL POSITIONS

- President Analytical & Computational Engineering, Inc. PO Box 809, Helotes, TX 78023
- Assistant Professor Mechanical Engineering
- Explosive Ordnance Disposal (EOD), Flight Commander

### MEMBERSHIPS

- American Institute of Aeronautics and Astronautics (AIAA)
- Terrestrial Energy Systems Technical Committee
- American Society of Mechanical Engineers
- The Combustion Institute
- American Physical Society
- American Institute of Chemical Engineers
- American Society for Engineering Education
- International Society of Explosives Engineers



# Christopher Butler CDR, USN Ret'd

## Projects Manager

### KEY SKILLS AND EXPERIENCE

An experienced Project Manager within the commercial security technology sector, Chris is an effective communicator with a wealth of knowledge in team leading, mentoring and business development. As the National Security Coordinator for Tenix his role was to develop National/Homeland Security Initiative and lead the team, providing professional consulting services for Infrastructure Security Technologies and Security Measures.

As the Vulnerability Assessment Group Projects Manager, Christopher is responsible for:

- Project Coordination between clients and technology providers
- Technology evaluation and holistic solution engineering, matching technology solutions with customer needs as a Trusted Advisor
- Client engagement for co-planning and co-development of requirement definition statements
- Analytic services
- Coordination and Management of Physical, IT and SCADA Security Teams

As a former Executive Officer and Research Program Team Leader with the Office of Naval Research Global division (ONRG) Chris appraised proposals for ONRG major research projects, managed deadlines, policies, and directed other managers, allocating resources among science and technology areas to best meet the program objectives. Chris was directly responsible for rapid development and deployment of mission critical defence technology, as well as enhancing port and harbour security, counter terrorism and force protection capabilities.

Chris has significant experience in strategic planning, as well as sensors, systems, and platforms security technologies. As a former Carrier Battle Group Tactical Demonstration and Evaluations Officer Chris was responsible for the evaluation and acquisition of state-of-the-art undersea warfare detection, communication network and training systems.

With extensive experience consulting in a range of defence, industrial, marine and infrastructure environments Chris is a senior consultant and project manager with experience at the highest levels of defence, academia and business.

His areas of expertise:

- Project Management and Solutions Delivery
- Strategic Planning
- Technology Evaluation
- Capability Building and Skills Integration
- Workshop Facilitation / Staff Training

### TITLE

- Projects Manager
- Customer Relationships Manager
- Adjunct Research Fellow, Curtin University of Technology, Marine Science and Technology
- Lecturer, University of Western Australia

### QUALIFICATIONS

- Advanced Certificate in Nuclear Power Engineering
- Master of Science "with Distinction" – Physical Oceanography and Meteorology – Naval Post Graduate School
- Bachelor of Science and Engineering "with Honors"– Systems Engineering, United States Naval Academy
- Qualified Submarine Warfare Officer

### INTERNATIONAL EXPERIENCE

- Australia
- Brazil
- Canada
- Czech Republic
- Denmark
- Estonia
- France
- Germany
- Italy
- Japan
- Mauritius
- New Zealand
- Poland
- Romania
- Singapore
- South Korea
- USA
- UK

### ADDITIONAL SKILLS

- NATO Staff Watch Officer (US Navy)
- International Liaison Officer (US Navy)
- Plans and Operations Officer (US Navy)
- Training and Readiness Officer (US Navy)
- Afloat Safety Officer (US Navy)
- Occupational Health and Safety Officer (US Navy)
- Personnel Reliability Program Officer (US Navy)

### MEMBERSHIPS

- United States Naval Academy Alumni Association
- North American Veterans Unit



# Jeff Corkill MAIPIO

## Security Intelligence Consultant

### KEY SKILLS AND EXPERIENCE

As the Security Intelligence Consultant of the Vulnerability Assessment Group, Jeff is responsible for development of the group's intelligence capabilities.

Jeff is in the final stages of a Masters of Professional Studies (Business and Security), where his research is focused on intelligence and risk analysis and integration of the security management function in order to maximise value from the security investment. He is also a sessional lecturer for Edith Cowan University in the fields of intelligence and security in government.

As a former Australian Military Intelligence Officer (Army) Jeff has extensive experience in strategic, operational and tactical intelligence. As the Officer Commanding Army Intelligence and Security Section Queensland, Jeff was the principle adviser on security and counter intelligence to all Army Commanders in the state. Jeff has extensive experience in developing base and facility security plans, managing security and counter intelligence investigations and developing security and risk management policy.

As a former Security Manager and Intelligence Adviser in the precious minerals industry he has advised, designed and implemented security, surveillance and intelligence management systems to support both strategic and operational commercial decisions. Jeff has extensive experience in developing security intelligence liaison networks domestically and internationally.

Jeff has experience consulting in a range of environments most recently working with the UN, USAID and government of Sierra Leone to develop policy and operational capacity for governance of the precious minerals sector.

Jeff has recently consulted for the following companies: Woodside Energy, ConocoPhillips Australia. Santos and Rio Tinto.

His areas of expertise:

- Vulnerability, threat and risk analysis
- Workshop facilitation / staff training
- Policy development
- Intelligence planning
- Strategic planning
- Country and environmental threat assessments
- Security systems auditing
- CCTV surveillance planning

### TITLE

- Security Intelligence Consultant

### QUALIFICATIONS

- Grad Dip Information Management and Analysis
- Dip of Applied Indonesian

### INTERNATIONAL EXPERIENCE

- Australia
- Indonesia
- Thailand
- Sri Lanka
- Sierra Leone
- South Africa
- Hong Kong
- Belgium

### ADDITIONAL SKILLS

- Counter Terrorism Intelligence Coordinator
- Interrogation Course
- Counter Intelligence Course
- Advanced Intelligence Course
- Joint Intelligence Course
- Industrial Relations
- Total Quality Management
- CCTV Surveillance
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### MEMBERSHIPS

- Member of the Board Australian Institute of Professional Intelligence Officers (AIPIO)
- Chairman Edith Cowan University Security Science Consultative Committee
- Member Risk Management Institution of Australasia
- Member ASIS International



# NINA BURAKOWSKI

## Security Intelligence Analyst

### TITLE

- Security Intelligence Analyst

### QUALIFICATIONS

- Master in International Relations, Curtin University of Technology
- Bachelor of Arts, University of Western Australia

### ADDITIONAL SKILLS

- Fluency in English, German, French
- Certificate in Intelligence
- Training in Emergency Management
- Training in exercise management
- Knowledge of Australia's counter-terrorism arrangements

### KEY SKILLS AND EXPERIENCE

Nina has international experience across the private and public sectors in research and analysis, emergency management and communications development. Exposure has been gained in the energy, resource, engineering and aviation sectors.

Nina's career focus has been on mitigating and managing political, country and sociocultural risks to an organisation's people, assets and operations. Nina has authored a broad range of analytical reports on various countries and events. These provided forecasts and assessments of political and security developments, actionable intelligence and a platform to maximise business opportunities and manage strategic and operational risks.

Nina was instrumental in the creation of a dedicated intelligence function for one of Australia's largest petroleum companies. This function provided the organization with targeted intelligence assessments to maximise business opportunities and minimise operational and strategic risks. This included the authoring of a broad range of intelligence reports on countries and events pertinent to the organization. These reports provided detailed forecasts and assessments of political and security developments, actionable intelligence and a solid platform for informed strategic decision-making for senior management.

Nina has also assisted in the establishing of a state-of-the art Crisis Centre for the Victorian Government to be activated in the event of a major emergency. This role included the coordination of Australia's largest conducted Counter-Terrorism exercise for a government department.

### Her areas of experience

- Analytical products
- Research and Analysis
- Intelligence
- Threat assessment
- Emergency Management
- Risk Management (AS 4360)