



Andrew Stuart Rich

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PROFESSIONAL SKILLS

- Exemplary record in Aviation and Telecommunications industries
- Demonstrated background in Research & Development and Project Management
- Results focused approach
- High regard to cultural diversity and individuality
- Working knowledge of OH&S standards
- High level reporting capability

PERSONAL ATTRIBUTES

- Dynamic leadership qualities
- Strong work ethic; reliable, responsible and hardworking
- Innovative and creative
- Self-motivated and patient
- Quick learner with a positive work attitude
- Superior analytical, decision making and problem solving skills
- Excellent organisational and time management skills
- Strong communication, interpersonal and liaison skills
- Ability to work well in a team or independently with minimal supervision
- Scrupulous attention to detail
- Dedicated to continuous learning and development

Professional Profile

Results focused, highly accomplished and experienced professional known for a combination of sharp analytical skills, leadership capabilities and interpersonal strengths. Extensive background in Research and Development, Product Development, Project Management and Strategic Planning and Implementation gained from decades of employment history in Aviation and Telecommunications settings. Recognised for successfully accomplishing revolutionary projects whilst setting strategic direction to ensure the successful delivery of project activities that optimise performance and operational outcomes. Solid record of people management, subject matter expertise and aeronautical innovation.

EDUCATION & QUALIFICATIONS

Associate Diploma of Electrical and Electronic Engineering

(Specialising in Telecommunications) University of Southern Queensland (USQ)

RADAR Training

- ✓ INDRA – RADAR System Course (SSR Only Mode S)
- ✓ INDRA – RADAR Software Support Facility (Creating RADAR OS)
- ✓ THALES – RADAR Civil Engineering Course AMSTAR (PSR/SSR Mode S)

Aviation Industry Training (Airservices Australia)

- ✓ Data Communications Fundamentals
- ✓ RF Electromagnetic Radiation Hazard (RadHaz) awareness
- ✓ RF Communications Fundamentals
- ✓ Doppler VOR - AWA T73 / T73A Maintenance
- ✓ National Airways System (NAS) Overview
- ✓ RADAR Surveillance Introduction
- ✓ Navigational Aids Introduction
- ✓ Non Directional Beacons
- ✓ Distance Measuring Equipment (DME) AWA LDB-102 (DM10) to AWA LDB-101 (DM9) Conversion
- ✓ Distance Measuring Equipment (DME) AWA LDB-102 (DM10)
- ✓ Common Audio Systems
- ✓ Audio and Control - Racks and Cabling
- ✓ Voice Reproducer Eyretel Digital
- ✓ Voice Reproducer Eyretel Digital E1000
- ✓ UNIX Introduction
- ✓ Primary Surveillance RADAR (PSR) Introduction
- ✓ The Australian Advanced Air Traffic System (TAAATS) Overview
- ✓ Technical & General TechCert (GTC) Introduction
- ✓ Secondary Surveillance RADAR (SSR) Introduction
- ✓ Non Directional Beacon (NDB) Nautel Vector 500
- ✓ TiNR Overview
- ✓ Aviation Rescue and Fire Fighting - Fire Safety
- ✓ External Provider - Resuscitation
- ✓ External Provider - Live Electrical Awitchoard Rescue
- ✓ EUROCONTROL Institute of Air Navigation Services - "Mode S: Now Evolution More than Revolution" seminar
- ✓ NORTEL 3341A - NORTEL Multiservice Switch 7440 Hardware Overview and Maintenance
- ✓ Parasynt – Practical Radio for Telemetry Systems
- ✓ Blue Dog Training - 30215QLD - General Safety Induction (Construction Industry)
- ✓ Park Air Systems – NORMARC 7000B Instrument Landing System
- ✓ InterSoft Electronics – RASS (RADAR Testing) Tools and Software
- ✓ Engineering Education Australia – Writing Winning Technical Documents
- ✓ Ongoing CPR Refresher Courses
- ✓ Ongoing Electrical Rescue Refresher Courses
- ✓ Ongoing Fire Safety – ARFF
- ✓ Blue Dog – Construction Industry Safety Training (Blue Card)

EDUCATION & QUALIFICATIONS (Cont'd)

Telecommunications (Telstra) Industry Training

- ✓ Telstra - 123 Days Technical Core Training (TCT)
- ✓ St Johns Ambulance - Resuscitation and CPR
- ✓ Telstra - Customer Awareness Training
- ✓ Telstra - Driver Awareness Training
- ✓ NORTEL Networks - BSC Operations and Maintenance
- ✓ NORTEL Networks - BSM Navigation
- ✓ NORTEL Networks - CDMA Overview
- ✓ NORTEL Networks - MTX Map Navigation
- ✓ HP Education Services - Fundamentals of the UNIX system
- ✓ HP Education Services - HP-UX System and Network Administration I
- ✓ HP Education Services - HP-UX System and Network Administration II
- ✓ Dialog Information Technology - 1013 Mastering Microsoft Visual Basic 6.0 Development (Classroom View)
- ✓ Ericsson - LZU108625 BSC Operations R8
- ✓ CISCO – IP Transfer Point (SS7 over IP)
- ✓ Telstra - Occupational Health and Safety (OH&S) Representative Training Course

Safety Training (Defensive Driver Safety Program)

Retail Industry Training

Aviation Publishing Industry Training

Web Content Delivery Training

CORE COMPETENCIES

- Powerful business acumen and commercial ingenuity in developing strategic and innovative solutions.
- Strong emotional intelligence and people management skills with willingness to embrace change and the ability to establish long and productive relationships with all levels of stakeholders.
- Proven technical and scientific skills combined with strong analytical capabilities and logical approach to problem solving.
- High level capacity and mental acuity to deal with complex issues both systematically and creatively.
- Proven experience in leading and coordinating complex projects concurrently; demonstrated superior understanding of project management methodology and techniques.
- Dynamic IT skills reinforced by substantial and comprehensive training and experience in Aviation and Telecommunications industries delivered by Telstra, CISCO, Hewlett Packard, Stumberger SEMA, HP, Airservices Australia, Normarc, Nautel, EUROCONTROL, Logica, Microsoft, Ericsson, NORTEL, Redcliffe Aero Club, Parasyn, Protocom, FPV Australia, Allstate Boat Licencing, Blue Dog Training, THALES, INDRA, Engineering Education Australia, University of Southern QLD, Intersoft Electronics, Park Air Systems, Dialog Information Systems and Dick Smith Electronics.
- Excellent communication skills, capable of delivering presentations concisely, informatively and enthusiastically.

EMPLOYMENT HISTORY

UAV (Drone) Remote Pilot Training and Business Establishment | 2017 to Present

- Lead training classes for students seeking to sharpen flying and real-world operational skills.
- Provide instruction, student mentorship, guidance and expertise on the theory and practice of unmanned flight.
- Demonstrate extensive knowledge and experience in various drone applications including use of drones for inspections, geological mapping, aerial photography surveys construction, utilities, pipeline, etc.
- Formulate a business plan for the service which included overall goals, financing plans, and target deadlines.
- Produce marketing plans and strategies, sales forecasts and budgeting.
- Demonstrate effective people skills, communication skills and professionalism.

Custodian Airservices RASS (RADAR Test Equipment) | 2017 – 2017

- Controlled, maintained and monitored radar test equipment.
- Processed inventories, physically located the equipment and updated the inventory.
- Recorded and reported changes of equipment and disposition transactions.
- Coordinated any change in activity for radar test equipment with management and obtained prior approval for any disposition or transfer action.

Airservices System Specialist (Flight Inspection System / Development Applications e.g. Cranes) | 2017 – 2017

- Supported the flight testing unit in the capacity of data analysis and report preparation.
- Coordinated, managed and led technical support for new products, software, upgrades or equipment.
- Configured systems for optimal support.
- Reviewed and updated systems regularly, documenting changes and system operation.
- Compiled, analysed and evaluated data from multiple sources to provide decision-making information.

Airservices System Specialist Surveillance Systems (RADAR / ADS-B / A-SMGCS) | 2016 to 2017

- Maintained all system hardware and software and installed and performed regular maintenance on all software and associate ancillary equipment.
- Designed and documented all security measures and standards for all software and hardware and ensured optimal performance.
- Maintained subject matter expertise in all applications for systems and knowledge on all new and upcoming technologies.
- Resolved technical problems, detected patterns of issues, and coordinated with teams regarding persistent problems.
- Documented, tracked and monitored problems to ensure a timely resolution.

Airservices System Specialist (RADAR SSR and PSR) | 2008 to 2016

- Responsible for the qualification of refurbished radar sites (Life Extension Program) as well as qualification of new radar installations.
- Performed research and implemented all technical solutions for all systems and ensured compliance to all company objectives.
- Provided regular status reports to management and performed various tests on systems to ensure smooth workflow.
- Evaluated system practices and recommended improvements and modifications.
- Responsible for the design and development of cost-effective solutions to technical and engineering problems.
- Developed and processed data, procedures, instructions, standards and specifications for repairs and modifications to radar, engines, components, tooling and equipment.

Airservices Airways Technical Officer Grade 3 (AWA Contract) | 2006 to 2008

- Responsible for preventive and corrective maintenance of all National Airways System equipment.
- Organised and monitored all technical activities and ensured compliance to all objectives.
- Monitored and provided expert knowledge on all tests and technologies and performed all system level engineering services in adherence to all product designs and project requirements.
- Determined all design philosophy and ensured consistency.
- Participated in various events to maintain knowledge on latest technologies.

Telstra Messaging Products Technical Specialist - Mobility Analysis and Investigations (AWA contract) | 2002 – 2006

- Responsible for telecommunications equipment installation and testing of large fibre systems to major buildings in Brisbane.
- In charge of programming and testing of site alarm and monitoring alarm equipment.
- Managed the GSM base station programming and commissioning.
- Developed technical specialist messaging systems.
- Conducted mobility analysis and investigations including statistics and investigation of complex faults.
- In charge of keeping current systems updated and running smoothly.
- Analysed trouble reports, computer analysis reports and user complaints and applied knowledge and experience to identify and rectify problems within the system.

SUMMARY OF PRIOR EMPLOYMENT

- **Telstra STT01 - GSM, CDMA, Messaging - 1.5 Years | 2002**
- **Re-joined Telstra - Wireless Networks Mobile Operations – NOC | 2001**
- **Telstra Higher Duties STT02 (A) 30 Days | 2000**
- **Joined a Subsidiary of Telstra – Network Design and Construction (NDC) CDMA / GSM / DCS / AXE Commissioning TT02 1 Year | 1999**
- **Telstra Higher Duties STT02 (A) 35 Days to Permanent | 1997**
- **Telstra Higher Duties TT02 (A) 151 Days to Permanent | 1997**
- **Telstra - Transmission, Customer Products, Alarm Reporting, Switching. Customer Cell – 14 Months, Alarm Management – 12 Months, Mobile Switch Commissioning 1.5 years | 1997**
- **Telstra Higher Duties TT02 (A) 9 Days | 1996**
- **Dick Smith Electronics (Salesperson, Support, Store Manager – 10 Staff) | 1995**
- **Director, Cranford Publications (Aviation Newsletters/ Text Books) Desk Top Publishing, Marketing, Secretarial, Computer Animation, Databases, Computer Art | 1993**
- **Oakey Army Aviation Radar Site. QLD. (Field Visit) | 1990**
- **7th Signal Regiment Royal Australian Army, Cabarlah. QLD 1 week | 1989**

SOFTWARE & HARDWARE EXPERIENCE

- **Extensive Software & Hardware Experience in the Telecommunications Industry**
- **Extensive Software & Experience in the Aviation Industry**
- **Extensive Software Experience in UNIX environment**
- **Extensive Software Experience in MCU (microcontroller)**

NOTABLE PROJECTS

- Installed most of Telstra's SiteLight product around Brisbane City (155Mb optical SDH)
- Streamlined many of Telstra's processes with web based and back end scripting. SMSLog, MobiLog, Diskwatch, TimeTrack, Diskmonitor, Findit, SMS Faults, SMS Advice, SMS Suite and MobiWatch.
- Mini ADS-B style system based on GPS and 434 MHz data radio (airborne tests).
- GPS derived clock and data display - PIC MCU
- ADS-B demo computers for Airservices Australia (Kinetic Avionics SBS-1)
- Doppler radio direction finder - USA kit
- Satpanel – a web based indicator of word wide satellite data traffic
- LINUX based satellite ground station for ISS (international Space Station)
- GPS data logger – PIC MCU
- GPSiiGSM (SATPLATE) – GPS, PIC MCU and GSM modem
- GPSiiTNC (Satellite robot) – PIC MCU and Radio modem
- Remote control - GSM modems (Telstra project)
- ADS-B to Google earth interface (Linux, MySQL, Perl)
- Built and tested 137 MHz weather satellite receiver
- www.tech-software.net - Hobby Website
- ADS-B data captures and display (Kinetic SBS-1, LeCROY DSO)
- ADS-B statistics and data analysis – (SBS-1, MySQL and Perl (LINUX))
- Antenna projects - yagi, quads, helix, quadhelix, verticals, lindenblad, quagi
- Provide RADAR data for CG from MHV (Nokia MUX / 5099 modems)
- Coolangatta DVOR build
- Telstra DNS – setup and maintain LINUX based DNS servers
- Tracking Weather Balloons (RS92 / RS41)

LICENCES & PERMITS

- Class C Driver's Licence
- Power Boat Licence
- Jet Ski (Recreational) Licence
- ASIC - Australia Wide (Red)
- BACL - Airside Driver's License (Perimeter Roads Only)
- CASA - AROCP - Aircraft Radio Operators Certificate of Proficiency
- Airservices Australia - Techcert GTC (General Technical Certification)
- Airservices Australia - Techcert VHF
- CASA – Student Pilot Licence (Expired)
- RePL (Remote Pilots Licence) – FPV Australia (Drone)
- Caboolture Gliding Club – Trial Flight (Twin Astir)
- Amateur Radio Advanced – 1990 To Current
- Blue Card (Working with Minors)

HOBBIES & INTERESTS

- UAV
- Sailing
- Flying
- Remote Control Planes
- Travel
- Computer Programming
- Electronics
- Ham Radio

REFERENCES

Mr Peter Davies

Service Engineer

C R Kennedy (Survey Supply and Service)
07 3862 6210

Mr Gary Voltz

System Interguity – Airservices Australia

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0424 483 555

Mr David Cook

Manager

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