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# CV – Emlyn Williams BSc GradDipEcom

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## PERSONAL DETAILS

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**Name:** Emlyn Williams

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Australia

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## CERTIFICATIONS

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Siemens Technical Support Forum Expert - Robicon Medium Voltage Drives  
Pseudonym - will4  
Siemens

Rework and Repair of Electronic Assemblies  
IPC  
Serial No RR-S 5858759965

Certified Machinery Safety Expert CMSE  
TUV Nord  
License Number 44 506 14 429883 222

Functional Safety Engineer FSEng  
TÜV Rheinland AG  
License 7654 /13

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## EXPERIENCE

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### **CHB Drives – Australia (December 2017 – Present) Lead Engineer**

Design and construction of medium voltage drive power cell test unit. Design and construction of medium voltage drive simulators. Repair and test of medium voltage drive power cells, low voltage drives and control boards. Medium and low voltage variable speed drive consultancy work.

### **GTE Group – Australia (January 2017 – Present) Senior Engineer**

Site support for Cape Preston Port Company. Support provided for Allen Bradley and Siemens PLCs. Support of Siemens Robicon, Siemens Micromaster, Siemens G130, ABB ACS and Allen Bradley

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Powerflex drives. Installation and commissioning of iba data acquisition system.

Commissioning of a Yard Machine interim striker functional safety system at Mining Area C for BHP.

#### **Siemens – Australia (August 2017 – December 2017) Field Service Engineer**

Five-year service of medium voltage drive propulsion system for HMAS Canberra. Variable speed drives 4 off 5.5MW GM150 Siemens Sinamics. Overhaul of two 11MW 6.6KV permanent magnet motors during dry docking.

Siemens Robicon GH180 drive modifications for Rio Tinto Weipa.

#### **I S Systems – Australia (December 2010 - August 2017) Lead Electrical Engineer**

Lead Electrical Engineer primarily responsible for medium and low voltage variable speed drive and automation projects including upgrades, new installations, breakdowns etc.

Projects include Car Dumper, Stacker, Reclaimer, Ship Loader, Conveyor and other industrial systems. Responsible for all project technical deliverables ranging from electrical design through to commissioning.

Experience with Masterdrive and Sinamics variable speed drive ranges including 6RA70, 6RA80, 6SE70 VC, Micromaster, G130, G150, S120, S150 and GH180 drives.

Experience with the following Siemens software packages - Starter, Sizer, Drive Monitor, Tool Suite, Debugger, Step 7.

Experience with the following PLCs and their respective software packages - Allen Bradley ControlLogix, Allen Bradley MicroLogix, Siemens S7 300, GE 90/70.

Experience with the following automation products - Siemens Industrial Wireless LAN, Siemens IE/PB link, Procentec Combricks, Procentec Profitrace, Pilz safety relays, Siemens safety relays.

Experience with Citec SCADA.

Functional safety experience with a strong focus on variable speed drive systems.

Experience with iba high speed data acquisition and analysis software.

Developed iba data acquisition interface for Siemens GH180 medium voltage drives.

#### **Siemens – Qatar (July 2008 – November 2010) Electrical Commissioning Engineer**

Commissioning Engineer responsible for the start-up of Siemens 60 MW Perfect Harmony medium voltage variable speed drive systems for LNG plants.

Drive system experience includes 4 x 15 MW medium voltage drives operating in parallel to one common 12 phase 7.2 KV 60 MW motor.

Drives consisted of 33KV input transformers, closed loop water cooling, Modicon master control PLCs, HMIs running Schneider Vejio, Rockwell PLCs with PanelView HMIs, and remote data logging.

#### **ASIRobicon / Siemens – United Kingdom (July 2002 – July 2008) Customer Service Engineer**

Responsible for commissioning and servicing of large variable speed drive systems. Drive system applications included oil and gas machinery and diesel-electric ship propulsion systems.

Oil and gas experience includes large medium voltage drives, motors, transformers, high and low voltage switchgear, PLC control systems, SCADA systems.

Diesel electric ship propulsion experience includes large drives, motors, generator controls, medium and low voltage switchgear including power management, transformers, SCADA systems and bridge controls. Commissioning engineer for the Marchi and Spirit of America Staten Island ferry vessels.

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Experience with PLC programming/commissioning of RSlogix 500 and 5000, Modicon Quantum.  
Experience with HMI programming/commissioning of Proface, Panel View, Schneider Vejio.  
Experience with Siemens Perfect Harmony AC drives.  
Experience with Ansaldo drives including AC Voltage source, AC current source and DC drives.

#### **Marriott Enterprises Ltd – New Zealand (June 2000 – March 2002) Electrical Technician**

Responsible for the fabrication of switchboards, control panels (HVAC, motor controls, PLC) and installation/maintenance of industrial/domestic electrical and data systems.  
Projects completed included new HVAC control system for Rimutaka Prison in Wellington and complete switchgear refurbishment for the Centerplace shopping centre in Hamilton.  
Responsible for switchgear mechanical and electrical drawings produced using Autocad.

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#### **EDUCATION**

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Diploma of Project Management: Engineering Australia, 2016 - 2017

University Education: University of Waikato, Hamilton, New Zealand, 1997-2001  
Post Graduate Diploma in Electronic Commerce  
Bachelor of Science – Physics and Electronics

Secondary Education: Hillcrest High School, Hamilton, New Zealand, 1992 - 1996