

# Harry William Herzog Jones, CEng, MIRSE, MIET, BScTech(Hons)

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## CONTACT INFORMATION

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## BIO

Dynamic and results-oriented Technical Project Manager and Senior Project Engineer with over 14 years of experience in the engineering field, specializing in signalling and telecommunications. Proven track record in developing conceptual and detailed designs, as well as planning and executing factory, site, and commissioning testing for complex systems and software. I also have intermediate skills in Python for machine learning.

I excel at analyzing data and understanding user needs to identify key challenges and develop effective solutions. With a strong background in leading diverse teams, I ensure that projects are completed on time and meet client expectations. I am dedicated to understanding intricate problems and using insights to help stakeholders make informed decisions.

## PROFESSIONAL EXPERIENCE

### **Siemens Mobility**, Sydney, Australia

*Technical Project Manager / Senior Project Engineer*

**2024 - Onward**

- Overall interface manager with responsibility for delivery of all interface elements on the Sydney Metro West (Sydney Airport). Responsible for the overall interface to the client, and responsible for technical engagement with subcontractors and third parties.

### **Siemens Mobility**, New Zealand

*Technical Project Manager / Senior Project Engineer*

**2021 - 2024**

- Project Engineering Manager with overall responsibility for delivery of all signalling disciplines (Interlocking, OCS, ETCS) on the Auckland City Rail Link. Responsible for the overall interface to the client, and responsible for technical engagement with subcontractors and third parties.

### **Siemens Mobility**, London, United Kingdom

*Signalling Interface Manager / Senior Project Engineer*

**2019 - 2021**

- Signalling interface manager with overall responsibility for delivery of all interface elements on the Crossrail C620 project, one of the largest projects in Europe. This includes delivering all third party interfaces regarding fringe signalling, automatic route setting, timetable download, tunnel ventilation systems and others. Responsible for the overall interface to the client, and responsible for technical engagement with subcontractors and third parties.

*Technical Project Manager / Senior Project Engineer*

**2018 - 2019**

- Technical Project Manager with overall responsibility for delivery of all radio related elements on the Crossrail C660 project, one of the largest projects in Europe. This includes delivering GSM-R, Airwave (TETRA) and LFEPA to all tunnels, stations, shafts and portals via a Cobham RFOF system. Management of the design, construction and commissioning team of 40 resources. Responsible for the commercial / technical management of Cobham, Comtest, RFS and other suppliers.

*Senior Project Engineer / CRE*

**2016 - Present**

- Senior Project Engineer for Victoria Phase 2 (Sutton to Wimbledon Re-Signalling), Sussex PSU (SCADA Upgrades), Angerstein, Hither Green and Thameslink HCI. Responsible for the management and co-ordination of the technical and engineering activities for the telecoms discipline from a lifecycle perspective. Responsible for the successful delivery of design, construction, commissioning and handover activities for the telecommunications subsystem for the above mentioned projects. This includes upgrades to fibre, copper, FTN, FTN-x and associated subsystems for power, signalling and telecoms use.

*Senior Telecommunications Engineer / Tester in Charge*

**May 2015 - 2016**

- Person in Charge of Testing (PICOT) responsible for the successful delivery of site testing, commissioning and handover activities for the telecommunications subsystem of the Thameslink London Bridge Area Programme (LBAP). This includes upgrades to the Network Rail Fixed Telecommunications Network (FTN, running SDH/PDH), Thameslink Signaling Private Network (TSPN, running IP) and Remote Condition Monitoring Network (RCM, running IP).
- Major interface between engineering, construction, and signaling commissioning teams, and reporting to various project managers. Developed commissioning strategies and plans, including resourcing, scheduling and integration into broader project execution plans. Supervision of fibre optic, SDH/PDH and IP network commissioning activities.

**Ansaldo STS, Perth, Australia**

*Project Engineer*

**November 2014 - March 2015**

- Engineering management for the Roy Hill Railway Signalling and Telecommunications Project including verification activities and budgets.

*Lead Testing and Commissioning Engineer*

**November 2012 - March 2015**

- Lead engineer responsible for the successful delivery of factory (FAT), site testing (SAT), commissioning and handover activities for the communications subsystem of the Rio Tinto autonomous train project (AutoHaul) in the Pilbara. Major interface between engineering, construction, commissioning and client witness teams, reporting to both the Project and Commissioning Manager. Development of commissioning strategies and plans, including resourcing, scheduling and integration into broader project execution plans.
- Execution and supervision (site and factory) for testing of power supplies, SCADA (including head-end integration), UHF data radio (DataRadio/Aprisa) and transmission elements for radio base stations. Execution and supervision for testing of CCTV, Cisco, Moxa and Kingfisher hardware for upgraded level crossings. Supervision of RuggedServer commissioning activities for large scale vital interlocking network upgrades. Major interface with train controllers to organise appropriate outages to undertake upgrades to signalling infrastructure, and supervision of Microlok updates for railway End of Sidings.
- Significant involvement in the planning and execution of construction works, including the selection of subcontractors, preparation of tender documentation and supervision of rigging and fibre works. Planning and strategy development for mast construction and installation.

**Arup**, Sydney, Australia

*Communications and Control Systems Engineer* **March 2010 - November 2012**

- Project management and systems engineering experience, including requirements management using DOORS. Business development, including preparing tender responses and exploring smart grid and SCADA opportunities. Successfully tendered and won smart grid business opportunity with Ausgrid (NSW Distribution Provider).
- Rail Experience: Radio modelling utilising Pathloss 5.0 for such Australasian projects as the South West Rail Link (UHF/GSM-R) and Kelana Jaya Extension Project (UHF). Involvement in the RailCorp GSM-R Rollout across NSW, including project management, spectrum sizing, and witnessing commissioning. Design of backbone telecommunications systems and associated containment systems for rail projects such as the North Sydney Freight Corridor and Auburn Stabling Yard. Design of railway station systems.

**Industrial Research Limited**, Gracefield, Wellington, New Zealand

*Research assistant for the Photonics Group*

**Summer 08/09'**

- Design of a data acquisition system and a 2-d laser beam profiler
- Investigation of optical modulation hardware and high temperature polling rigs

#### EDUCATION

**Victoria University of Wellington**, Wellington, New Zealand

BScTech (Hons), School of Chemical and Physical Sciences (Completed in November 2009)

- 1st Class Honours, Majoring in Electronics and Instrumentation
- Victoria Graduate Award

#### ACADEMIC EXPERIENCE

**Victoria University of Wellington**, Wellington, New Zealand

*Honours Researcher*

**2009**

- Completed a full year project on channel sounding with software defined radio, utilizing the GNURadio and USRP platform, also ran tutoring on this topic.

**Australian National University**, Canberra, Australia

*Summer Research Scholar*

**Summer 09/10'**

- Worked on a project that consisted of modelling a typical WCDMA mobile transmitter and receiver, utilising source coding and iterative decoding methods.

#### CONFERENCE PUBLICATIONS

Harry W. H. Jones, Pawel A. Dmochowski, Paul D. Teal. Channel Sounding with Software Defined Radio. Proceedings of the 2009 [Electronics New Zealand Conference](#)

#### REFEREES

Available on Request