

NAME OF PERSON Martin Hughes
NATIONALITY British
POSITION Senior Telecoms Engineer



QUALIFICATIONS BSc (Hons) Communications Networks – Sheffield Hallam University
Associate Member of the Institute of Railway Signalling Engineers
Member of the Institute of Engineering and Technology
Applying for Incorporated Engineer Status via the IET
Working Towards IRSE Licence in the category of Engineering Manager (Design)
PTS AC/DC

KEY EXPERIENCE Martin is a Telecoms Engineer with 10 years experience in the Railway Telecommunications industry. He has experience of dealing in all aspect of the Rail Telecoms asset lifecycle, from original concept through development, design, installation, test and commissioning.

Martin has carried out the Telecoms CRE Design role on the following Network Rail projects:

- Redhill Station Enabling Works (GRIP 5)
- Hunts Cross Life Extension (GRIP 4)
- Hunts Cross Gantry Renewal (GRIP 4)
- CrossRail Enhanced Stations (GRIP 4)
- Newton Le Willows Station (GRIP 3 – 5)
- Mapliphant IEP DEPOT (GRIP 5)
- Uckfield Train Lengthening (GRIP 5)
- Doncaster IEP Depot (GRIP 3 – 5)
- CP5 AfA Wales (GRIP 5)
- NSW PACKAGE 1 & 2 Permanent Way and Signalling Renewals (GRIP 5)
- Dean & Dean Hill Signalling Renewals (GRIP 4 & 5)
- Chiltern Platform Extensions (GRIP 5)
- Gatwick Airport Redevelopment Scheme (GRIP 6 – 8)

Martin also carried out the Telecoms CRE Construction role on the following Network Rail projects:

- ECML PSU – Kings Cross to Doncaster (GRIP 6 – 8)
- Mapliphant Depot (GRIP 6 – 8)
- Doncaster IEP Depot (GRIP 6 – 8)
- Dean & Dean Hill (GRIP 6 – 8)
- Gatwick Airport Redevelopment Scheme (GRIP 6 – 8)

EXPERIENCE

March 2017 – Present **Kilborn Consulting Limited**

January 2017 – Present **MRC Engineering, Independent Consultant**

Currently involved in:

TRANS PENNINE ROUTE UPGRADE PROJECT – LEEDS CENTRE (on behalf of Jacobs)
Telecoms Design CRE for the Centre of Leeds for the TRU project. Specifically looking at 3 main work streams – Operational Telecoms, SISS Telecoms and GSM-R Systems and the implications on each system due to new P Way alignments/Signaling proposals.

EAST COAST MAINLINE POWER SUPPLY UPGRADE – DONCASTER TO EDINBURGH (on behalf of Jacobs)
Telecoms CRE for the ECML PSU scheme from Doncaster to Edinburgh section. Leading the technical delivery of the Operational Telecoms and technical integration of the FTN and GSM-R Systems for the scheme.

September 2013 – December 2016

HComm Principal Engineer, United Kingdom

The main duties of the position were to lead the project and design delivery teams. As Principal Engineer, Martin was responsible for linking the three main project elements of project engineering, design and installation, test and commissioning. The position also required to undertake the bulk of the CRE Design workload leading early design and AiP through to detailed design delivery. The role also required on occasion to undertake the position of CRE Construction reviewing delivery plans, WPPs, test straggles and Test and Commissioning Plans.

During this period Martin was involved in the following schemes:

REDHILL STATION ENABLING PROJECT

Telecoms CRE and lead for the lift and shift of the Operational Comms assets located in the footprint of the proposed new Platform 0 at Redhill Station. The works included intrusive surveys and GRIP 5 detailed design to AFC for the scheme. The relocation of an existing 122pr legacy dopped quad cable, existing PCM regens from an existing Krone Location case into a NR XC1 cabinet. The works also required the lift and shift design of a 24f Core to Core Node cable from Three Bridges to Victoria signaling centre including FTNx.

CROSSRAIL ENHANCED STATIONS PROJECT

Telecoms Design CRE leading the design delivery for the Telecoms on the 6 enhanced stations for the Cross Rail scheme. As CRE I was the Telecoms technical lead for the scheme and would manage the whole Telecoms delivery for the works. The scheme involved design development of the existing GRIP 4 due to the architectural alterations with the introduction of a new IP CCTV system from the GRIP 4 Analogue system.

HUNTS CROSS LIFE EXTENSION PROJECT

Delivery of the Telecoms GRIP 4 designs as CRE for the Signalling life extension between Hunts Cross and Liverpool General Stations. The project involved GRIP 4 design development of an aging legacy system that was to be kept operational and relocated into new Telecoms assets. This included the relocation of legacy quad cabling and taper cables

HUNTS CROSS GANTRY RENEWAL PROJECT

Delivery of the Telecoms GRIP 4 designs as CRE for the Signalling Gantry Renewal north of Hunts Cross Station. The project involved GRIP 4 design development. The project was a simple relocation of existing SPTs and cabling that was co-located with Signalling equipment. This scheme was led by the junior staff support by me for guidance.

NEWTON LE WILLOWS STATION PROJECT

As Telecoms Design CRE for the project my role was to lead the Telecoms design and project delivery for the station from GRIP 3 – 5 for the full station upgrade. SISS works formed part of the Telecoms scope with enhancement of all existing station assets (including cabling) and introduction of a new IP CCTV system.

UCKFIELD TRAIN LENGTHENING PROJECT

Telecoms Design and Construction CRE for the project delivering supporting the civils platform extensions for 6 stations on the Uckfield to London Bridge Route. The works involved the development of the GRIP 5 design for AFC for lift and shift of all copper and fibre cables that fell within the footprint of the proposed platform extensions. The scheme also required the relocation of an existing GSMR repeater and migration of legacy transmission to FTN.

DONCASTER IEP DEPOT PROJECT

Telecoms CRE for the production of the GRIP 3 – 5 design for the scheme. The works included the design for new copper cabling connecting Doncaster PSB to the new Depot to allow communications between the depot, Doncaster PSB and York ECR. The scheme also involved the upgrade of the Doncaster and ECR Hipath Concentrators.

NORTH SOUTH WALES P1&2 PROJECT

Telecoms Design CRE leading the GRIP 5 detailed design production to for the proposed new line and capacity enhancements. The works include the design of new FTN copper cable between Chester and Wrexham, lift and shift of fibre cables, uplift of FTN sites, introduction of new 30 line Hawk Concentrator and recoveries of existing legacy assets (cable, PETS, etc.). The works also required 5 new TDM interlocking systems with diverse connections both hardwired over telecoms and FTN.

June 2012 – September 2013

SSL, Lead Design Engineer, United Kingdom

During my appointment as a Lead Design Engineer I was responsible for carrying out the Telecoms designs for a number of projects including CRE activities on projects for Network Rail.

Projects involved in during this period were:

POOLE TO WOOL PROJECT

Telecoms designer for the detailed design of new Telecoms infrastructure supporting the Poole to Wool Line development and signaling works. This included the recovery of three SB's and introduction of new signaling bearer systems and the installation of a new Siemens Hipath Concentrator. The design production to AFC included operational comms only with the introduction of new copper cabling and interfacing with Heritage Swanage Railway providing connection for an increased Token Block system to Wool Station. Finally the works involved the uplift of a number of FTN sites.

GATWICK AIRPORT REDEVELOPMENT PROJECT

Telecoms CRE for the detailed design of upgraded Telecoms assets between Redhill and Three Bridges. The works involved the inclusion of new Operational Comms assets and FTN uplifts.

September 2010 – May 2012

Network Rail, Senior Project Engineer, United Kingdom

Responsible for assisting in all aspects of project engineering and design of railway operational Telecoms projects and Governance and Assurance of the schemes worked on. These included GNGE Re-Control, GNGE Southern Access, TPE Tram train Phase 2, Tier 1, MAFA and Birmingham New Street Enhancement.

September 2007 – May 2010

VolkerRail Signalling, Project Engineer, United Kingdom

As the sole Telecoms engineer I was responsible for the delivery of the entire Telecoms portfolio within the company. This included the support of Signalling schemes of varying size and complexity.