

NAME: Mark Davis IEng MILP MIET. MPWI

Phone Number: +44 (0) 7939 806494
Email: mark.davis@mld-rc ltd.co.uk
Nationality: British.

EDUCATION/QUALIFICATIONS

Incorporated Engineer
 BTEC Higher National Certificate in Engineering (Mechanical)
 BTEC National Certificate in Electrical Engineering
 BTEC Higher National Certificate Building Services Engineering (Electrical Installations)
 BTEC Continuing Education Diploma Building Services Engineering (Electrical Installations)
 Member of the Institution of Lighting Professionals (MILP)
 Member of the Institution of Engineering and Technology (MIET)
 Member of the Institution For Rail Infrastructure Engineering (MPWI).
 PTS (Lapsed).

Speak/read/write English language: Yes

Software

Microsoft Office.
 MicroStation Connect.
 ProjectWise.
 Lighting Reality.
 DIALux.
 Bluebeam.
 Electrical OM.

PERSONAL SUMMARY

I have a proven track record in the transport industry since August 1980 and I am currently providing E&P (LV and Earthing & Bonding for Electrification) services on a contract basis.

My previous role was leading an electrical design team in a large end to end consultancy company performing the duties of Line Manager, CRE, Designer, Checker and Approver for electrical and lighting schemes.

I have experience in railway power supply infrastructure schemes, including points heating, building services (electrical) and earthing and bonding of LV systems in readiness for 25kV electrification and have provided Project Engineer services for Network Rail.

I have also designed lighting schemes for platforms, station buildings, car parks, junction lighting and highway schemes including electrical distribution systems for the A38 Birmingham Tunnel Refurbishment.

Core Competencies

E&P
 Design/Construction
 GRIP3, 4, 5, 6-8
 E&P design CRE

Key Strengths

Design, checker & approver.
 Production of specifications, as built records, materials lists
 Independent checking of works carried out in other design teams and disciplines.
 Providing technical support for E&P Site works.
 Environmental Awareness
 CDM Awareness

Expert in:

Electrical Engineering.
 Maintaining Local Design Team Procedures.
 Mentoring Junior Staff

Competent in:

Points Heating.
 Power Distribution Systems.
 Building Services (Electrical);
 Lighting (Rail & Highway);
 Level Crossings.

Knowledge of:

Maintenance.
 Public utilities.
 Contract documentation.
 Design production.
 Overhead Line Electrification.
 Switches & Crossings (S&C);
 Civil Engineering.
 Fire Alarms.
 Security.
 Signalling Power.

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EMPLOYMENT HISTORY.

January 2020 to Ongoing Novae LTD.

Job Title: Principal Electrical Engineer. (Contract).

August 2020 to Ongoing Amey Consulting Services / Siemens

Job Title: Lead Electrical Engineer. (Contract).

February 2019 to April 2019 Amey Consulting Services

Job Title: Principal E&P Engineer (Contract).

December 2017 to Ongoing TSP Projects Ltd/Systra

Job Title: Principal E&P Engineer (Contract).

July 2017 to 2020 Linbrooke Design Services Ltd

Job Title: Principal E&P Engineer (Contract)

August 2016 to June 2017 LRD Engineering Ltd

Job Title: Principal E&P Engineer (Contract).

July 2001 to July 2016 Amey

Job Title: Electrical Engineer to Principal Engineering Manager (Permanent Staff).

November 1999 to July 2001 First Engineering

Job Title: Infrastructure Technician (Permanent Staff).

September 1988 to November 1999 British Rail & Owen Williams Railways

Job Title: Temporary Technical Officer, Technical Officer, Senior Technical Officer, Principal Technical Officer, Assistant Section Engineer & Electrical Section Engineer. (Permanent Staff).

April 1988 to September 1988 British Rail.

Job Title: Temporary Technical Officer. (Permanent Staff).

August 1984 to April 1988 British Rail.

Job Title: Cat 4 Electrician (Permanent Staff).

August 1980 to April 1984 British Rail.

Job Title: Dual Trained (Mechanical & Electrical) Craft Apprentice (Permanent Staff).

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PROJECT HISTORY

2020 to Ongoing	Novae LTD.	Principal E&P Engineer (Contract).
I am currently working as a designer and checker, projects worked on include, Calcot Lane UWC GRIP 4-5, Oldends Lane LX Survey, Hereford Sidings Driver's Walkway Lighting, Dawlish Marine Parade Lighting & Watford Euston 650V Renewals.		
2020 to Ongoing	Amey Consulting / Siemens	Lead Design Engineer (Contract).
I have been working as a lead design engineer with the responsibility for guiding the lighting designers with railway junction lighting and designing the electrical distribution system to power the lighting, for Miles Platting, Bromley Street, Manchester Victoria East, Stalybridge West, Junction Lighting as part of the Transpennine Upgrade. Design of the junction lighting including lighting calculations for Batley and Dewsbury also part of the Transpennine Upgrade.		
2019 to 2019	Amey Consulting	Principal E&P Engineer (Contract).
Working as a consultant assisting on various projects such as Wellingborough Station works associated with new MML electrification, Holloway Circus Birmingham assist with the close out of the design / installation due to site problems and assist with the writing of E&P GRIP 3 reports for the Transpennine Upgrade West of Leeds project.		
2017 to Ongoing	TSP Projects Ltd/Systra	Principal E&P Engineer (Contract).
Working as CRE for LV Supplies on the ECML PSU1 project. M&E CRE Checking ATF Cable Routes on Sections 8&9. Checker for Heathrow Express Tunnels Earthing & Bonding for 12kA upgrade. Designer for traction earthing and bonding for Access for All projects at Tring, Stechford, Hanwell, Iwer, Langley & Taplow stations. Checker for Water Orton Corridor HS2 Advanced Works (Non-Signalling Power) Appointed CRE for Stray Current Bonding Thames Link Tunnels Central London. M&E CRE Checking ATF Cable Routes on GWRM South Wales Section.		
2017 to 2020	Linbrooke Design Services Ltd	Principal E&P Engineer (Contract).
I worked on GWRM as E&P LV Earthing & Bonding on Section 6P Cu 35 to 39, this included bonding designs for lineside structures and Bristol Parkway Station as CRE. Produced a review of the as built earthing and bonding of the perimeter fencing on the Hitachi Stoke Gifford Depot. M&E CRE Checking ATF Cable Routes on GWRM Section 6P Cu 35 to 39. Checker on Crossrail Anglia Cross Bond Installations Checker Daisyfield signalling power, TDM Renewals LV supplies, NW Bicester Link Road G4-8, Crossrail Anglia Project & Earth & Bonding technical advisor on Crouch Hill bridge scaffolding. Designer Horton in Ribblesdale points heating.		
2016 to 2017	LRD Engineering Ltd	Principal E&P Engineer (Contract).
I introduced new design procedures improving control of the design process. Reviewed and reformatted and restructured the existing company management system to improve the relevance of the policies, procedures and standard forms, this also included the reformatting of the documents to give a consistent appearance. I also introduced a management system index and document control process and set up a project directory structure for a new off-site server that was introduced and tested the new server before its introduction. Designed and introduced a standard template for a Detailed Design Electrical Specification. Projects worked on as a checker – Penzance Depot Enhancements & Banbury New Depot electrical services design. Providing Technical advice and Railway experience for the LV earthing & bonding for 25kV electrification for Old Oak Common Crossrail Depot. Prepared a template Survey Report for surveying existing LV electrical assets in preparation for upgrading of the earthing & bonding due to the introduction of the 12kA Auto Transformer system.		

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2010 to 2016	Amey	Principal Engineering Manager
Projects include: three new stations on the €350m Kildare Route Project for Iarnrod Eireann, Bletchley and Milton Keynes Remodelling for West Coast Route Modernisation, Ebbw Valley Line Reopening, Cardiff Valleys platform extensions and Water Orton Corridor Resignalling. Various points heating renewals, and Colchester to Clacton Resignalling. Various motorway lighting schemes. E&P CRE for Gospel Oak to Barking Electrification. Seconded to Network Rail as E&P Project Engineer for the FTNx project.		
2011 to 2013	Amey	Principal Engineering Manager
Stalybridge Resignalling (GRIP 5-8) CRE responsibility for the points heating, platform lighting on this re-signalling scheme for Network Rail LNW. I supervised engineers, checked designs and attended client and design team meetings.		
2010 to 2013	Amey	Lead Engineer
Birmingham A38 Tunnels Refurbishment (as part of Birmingham PFI) I had responsibility as Lead Engineer on this non-rail project for delivery of low voltage power distribution works		
2009 to 2012	Amey	Principal Electrical Engineer
Water Orton Resignalling (GRIP 5-8) As CRE I had responsibility for provision of points heating works, new power supplies, walkway and buffer stop lighting. I also provided guidance for design staff and attended interdisciplinary design meetings.		
2008 – 2010	Amey	Principal Electrical Engineer
Thameslink (GRIP 4&5) As CRE, I managed the design for the platform lighting and points heating with responsibility for delivery timescales and budgets. The project required the extension of several station platforms on the Midland Mainline between Bedford and Elstree and Borehamwood to accommodate 12 car trains.		
2007 to 2010	Amey	Principal Electrical Engineer
Ebbw Valley Line Reopening As CRE I produced platform lighting designs for this project and managed the interface with other disciplines and mentorship of junior staff.		
2006 to 2008	Amey	Principal Electrical Engineer
Milton Keynes - Bletchley Remodelling & Resignalling (GRIP 3-5) I had full responsibility for delivery of the platform lighting design on this multifunctional design commission.		
2006 to 2009	Owen Williams Railways	Lead M&E Engineer
Kildare Route Project (for Iarnrod Eireann) I performed lead M&E designer duties in Ireland, for various building services, platform lighting, retail lighting and small power designs as part of this project.		
1999 to 2001	First Engineering	Infrastructure Technician
Following redundancy, I joined the maintenance team based at Birmingham New Street Station, where I carried out planned maintenance, fault finding / repair & on call duties refreshing my experience of working in the field.		
1988 to 1999	British Rail & Owen Williams Railways	Temporary Technical Officer, Technical Officer, Senior Technical Officer, Principal Technical Officer, Assistant Section Engineer & Electrical Section Engineer
In this period of my employment, I joined the London Midland Regional Civil Engineer's Building Services Office in the London Midland HQ in Birmingham. I progressed from a temporary technical officer through to Electrical Section Engineer (MS3). I typically worked on electrical renewal schemes for stations, depots and signal boxes and used to take the scheme from site survey, design, cost estimation, specification writing, invitations to tender, site inspection, snagging and hand back into maintenance.		

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1988 to 1988	British Rail	Temporary Technical Officer
I spent some time in the technical office of the Area Maintenance Engineer Birmingham working on the site survey and design of small electrical schemes within the Birmingham area.		
1984 to 1988	British Rail	Cat 4 Electrician
<p>Upon the completion of my apprenticeship, I was appointed to the post of Station Electrician at Birmingham International, here I was part of a team of three and was responsible to the maintenance of all the plant and equipment on the station including station & car park lighting, heating and cooling, lifts and escalators, standby generator, 5 local railway stations and station points heating.</p> <p>The position was remote from the supervisor's office (located in Birmingham New St) and required a level of self-discipline and trust.</p>		
1980 to 1984	British Rail	Dual Trained (Mechanical & Electrical) Craft Apprentice
<p>I joined British Rail directly from school at the age of 16; he completed a 4 year mechanical and electrical craft apprenticeship which was made up of one year off the job training at Sutton Coldfield College of Further Education.</p> <p>Areas of railway engineering I received training in:</p> <p>Diesel Traction Maintenance – Diesel Multiple Units and Locomotives (Tyseley Traction Maintenance Depot);</p> <p>Carriage & Wagon Maintenance;</p> <p>Overhead Line Maintenance including Distribution;</p> <p>Plant & Machinery;</p>		