

Michael Chung MEng ACGI MIET

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SUMMARY

Dedicated and proactive Electrical Engineer with specialist knowledge in railway traction electrical systems. I am a reliable and self-driven problem solver with a great attention to detail who act with integrity and empathy. My commitment and determination, and my strong ability to collaborate and communicate effectively in both written and verbal forms has been recognised by senior directors as the UK&E Employee of the Year.

EXPERIENCE

Atkins

2015-present

Team Leader (2019-present)

- Responsible for 9 Electrical Engineering graduates and apprentices
- Mentor and provide guidance in their personal professional development
- Operations and Resource management for the wider team of 20 engineers and technicians of all levels

Electrical Systems Engineer (2018-present)

Graduate Engineer (2015-2018)

- Specialise in Traction Power Modelling, Electrical Traction Equipment (ETE) Design and Earthing & Bonding (E&B), with experiences also in Electromagnetic Compatibility (EMC) and HV Distribution Design
- Excel in Team working and Stakeholder Management
- Adaptive and Effective Communication and Presentation Skills to different target audience

Selected Project Experience

- **Crossrail Central Operating Section:** Assisted the Chief Engineers' Group to complete the project's E&B and EMC Safety Justifications (SJ) as part of evidence for ROGS. Contributed to and managed in a number of aspects of the safety assurance processes, which included working with multiple stakeholders to coordinate testing activities across Energisation and Dynamic Testing programme and producing assurance documents.
- **Docklands Light Railway:** Led the survey team to conduct 8 surveys to support the cable management upgrade programme, with a focus on cables' EMC segregation and providing recommendation for future works.
- **Feltham and Wokingham Resignalling Scheme:** Led the Enhanced Negative Bonding ETE designs for Phases 3 & 4 for the scheme in South-west London.
- **Rail for London:** Project managed a number of ETE/HV packages for the East London Line on programme and budgets. Led the diagnosis and provided recommendations for ETE issues at their interfaces with Network Rail.
- **Vision Oslo Modelling:** Led Traction Power Modelling and Timetable Modelling for various projects. Clients include Network Rail, Transport for London, West Midlands Combined Authority and Maryland Transit Administration (USA).

Other Responsibilities

- **Regional Staff Representative at the Health, Safety, Wellbeing and Environment (HSE) Committee:** Acting as a link between staff and senior management, I help to resolve any concerns and issues raised whilst influencing management decisions on related matters.
- **Priority Lead for the Early Careers Community:** Building the community of around 200 staff to enable sharing of best practices and development opportunities. Contributing to the business strategy and act on recommendations to the business from the annual survey for the community and their managers.
- **STEM Lead for the Croydon office:** Organising different outreach activities and work experience opportunities to get younger people interested in STEM subjects and the rail industry.

RWE Innogy UK (formerly RWE npower renewables)

Summers of 2012-14

IET Power Academy Scholar

- The IET Power Academy Scholarship Scheme provides an opportunity for me to carry out summer internships with a bursary for my university studies.
- Worked as part of a Grid Integration Team in Offshore Engineering to model and design wind farms.
- Conducted load flow, short circuit analysis and harmonics studies, as well as a feasibility study in the technology of 66kV wind farm array from engineering, RAMS and commercial perspectives.
- Projects include Rhyl Flats in North Wales and early engineering designs for Triton Knoll in the North Sea.

EDUCATION AND QUALIFICATIONS

Imperial College London

2011-15

MEng Electrical and Electronic Engineering (Upper Second Class Honours)

Final Year Project: Designed and Implemented a MATLAB algorithm to produce an optimised layout for an offshore wind farm against engineering and commercial merits, taking into account the seabed profile, resistive power loss and availability.

Academic Modules include: HVDC Technology, Power System Economics, Sustainable Energy Systems, Power System Control, Power Electronics, Electrical Energy Systems, Mathematics, Communication Networks, Digital Signal Processing, Managing Organisations & Visual Culture, Knowledge and Power

Dean Close School, Cheltenham, Gloucestershire

2006-11

A levels: Mathematics (A*), Design Technology (A*), Business Studies (A*), Physics (A), Further Mathematics (A), Chinese (A).
GCSEs: 10 GCSEs, mostly A*s and As, including Mathematics and English.

AWARDS AND ACHIEVEMENTS

- **National Rail Awards Young Rail Professionals Judge (2020):** Selected as a member on the judging panel of the annual prestigious industry event.
- **Atkins UK&E Employee of the Year (2019):** Endorsed by Senior Directors, for my strong performance in Safety, Integrity, Collaboration and Innovation.
- **Institute of Engineering and Technology (IET) Power Academy Scholarship (2012-15):** An industry sponsored scheme which promotes careers in the power and electrification sectors.
- **Community Connections Volunteer of the Year (2014):** Awarded by Imperial College Union for my proactive participation and leadership in various volunteering roles.
- **Outstanding Service Awards (2014 & 2015):** Awarded by Imperial College Union for enhancing the student experience across a broad spectrum of areas during the year.

SKILLS

Railway Specific

- Personal Track Safety (AC + DCCR) – Site Experience in Network Rail, Crossrail and DLR managed locations
- Vision Oslo software for Railway traction power and timetable modelling
- ETAP for HV network modelling
- Cadence PSpice for simulating electronic circuits

Programming/Software

- Design and execute complex algorithms and solutions in Batch, C, C++, Python and MATLAB
- User Interface Design with web applications on HTML, PHP and MySQL
- Proficient in Microsoft Office 365 Suite, including Flow, SharePoint Online and Visio

Language Fluent in English, Cantonese and Mandarin.

MEMBERSHIP

- Associate of the City and Guilds of London Institute (ACGI)
- Member of the Institution of Engineering and Technology (IET). Targeting CEng professional registration in 2021.
- Member of the Young Rail Professionals (YRP)

INTERESTS

- **Volunteering:** Keen volunteer giving back to the society where I can. I am currently a STEM Ambassador volunteering in local schools, as well as at the London Transport Museum, the Postal Museum and Access Aspiration (a Mayor's Fund for London programme). My highlights include organising the London Climate Forum in 2013 and volunteered for a month in Rwanda to implement off-grid electricity solutions. Obtained ILM Level 5 Management of Volunteers qualification.
- **Transportation as a system:** Passionate about the past, present and future of transportation, especially how it links up communities and the socio-economic benefits for the world.
- **Web Development:** Self-taught web languages to produce different web applications. Projects in development include utilising open data to provide real life information for commuters with predefined multi-mode journeys.
- **Media:** Experienced in communicating and targeting the message depending on the audience and means. At university I had a column in the Student Newspaper and hosted my own show on Student Radio. I created numerous promotional materials for different societies and charitable causes.