



JOHN JOSEPH O'NEILL

CURRICULUM VITAE

PERSONAL DETAILS

PROFESSIONAL MEMBERSHIP: **Eur Ing B Eng(HONS) C Eng FIEE FCIBSE MSL**
AND QUALIFICATIONS

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DATE OF BIRTH: 27 November 1959

NATIONALITY: British

MARITAL STATUS: Separated with three children

PARTICULAR EXPERIENCE

An engineer with over 25 years experience within the building services industry working for both Client and Consultant organisations within the UK and on International Projects. A practical engineer trained to Approved Electrician level and as an Authorised Person. (Electrical).

John commenced his career in 1980 within the Metropolitan Police Engineers where he spent eight years in the design office and as a Project Engineer. This was followed by a total of seven years working for three leading Consulting Practices at Senior and Principal Engineer level, and two years working within the technical group of a blue chip pharmaceutical company. John expanded his knowledge and expertise by spending two years working for a leading FM Company before forming TSA.

Comprehensive knowledge of all aspects of general electrical building services design including lighting, power, standby generation, CHP, UPS, fire alarms, security systems, public address systems, lifts, escalators etc. Considerable experience within in Facilities Management including planned preventative maintenance, legislative compliance, operation and administration of Electrical Safe System of Work and Permit procedures and AE Electrical duties.

Particular specialisations include HV/LV distribution, protection studies, systems reliability and resilience, hazardous areas and the assessment of new technologies.

Projects include Data Centres, Pharmaceutical Facilities, Commercial Offices, Airports and Ancillary Buildings, Industrial Buildings, Pumping Stations, Cargo Handling Centres, Hospitals, Dealing Rooms, Hazardous Areas, Police Stations, Retail, Component Test Centres etc.

Acted as Authorising Engineer Electrical for a large property portfolio from 1996 to 2001.

EMPLOYMENT HISTORY

July 1997

Technical Support Associates Limited

Position: Director

Duties: Joint Director and founder of TSA responsible for the technical management of all Electrical work including building services designs, feasibility studies, reports, project checking, site management, specifications etc. Responsible for company finance, overall strategic direction/planning, business plan, general management, marketing, staff recruitment, training, resource allocation and monitoring, initiating continuing company improvements/developments including Investors in People and Quality Assurance (ISO9001).

Projects: Terminal 5 11kV design (including distribution options reports, SLD's, cable/equipment schedules, SCADA), speculative office developments, various standards/guides, specialist advice, health & safety, data centres, hazardous area design for hangars, electronic record information etc.

1995 - 1997

FBA - British Airways Technical Support Group

Position: Senior Principal Engineer

Duties: Lead Electrical Engineer within BA Property Department. Setting technical standards, guidance notes and specifications either in-house or via external consultants. Auditing consultant deliverables and projects. Initiating and developing Electrical Safety Rules and Permits, and fulfilling duties as BA Authorising Engineer (Electrical). Developing standard consultants briefing document. Developing BA Preferred List of Suppliers. Instigating fee tender for a protection study and system analysis at Heathrow and Gatwick. Appointment of consultants for lighting surveys. Appointment of contractors for lighting remedial works. Initiating oil switchgear survey. Developing standard asset data forms. Preparing various reports and recommendations for BA Facility Managers. Investigating the use of thermal imaging and static switching.

Projects: Various projects including Waterside, World Cargo Centre, Technical Block A, New Data Centre, West Side switchgear replacement and Terminal 5.

1994 - 1995

Sir Alexander Gibb and Partners

Position: Senior Principal Engineer

Duties: Supervising the work of Electrical and Graduate Engineers, including short term and long term resources planning. Liaison with client and other members of the design team. Assistance in upgrading department marketing material. Implementing the use of power systems analysis software with a view to marketing this service and developing an in-house training programme. Preparation of tender bids for a number of projects.

Projects: Great Man-made River Project (Libya)

Full responsibility for power and electrical building services design. Production of single line diagrams for pumping stations and ancillary services. Specification of 33 kV, 11 kV and 380V switchgear and transformers. Specification of motor control centres including 11 kV and 3.3 kV direct-on-line starters and 11 kV variable speed Kramer drives. Load calculations for normal and abnormal operation including transformer voltage regulation studies under both

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base load and motor starting conditions. Design of protection relay system including device co-ordination. Power system analysis by use of software.

Military Base (Oman)

Attendance at factory witness testing and site commissioning of HV/LV switchgear and frequency converters.

Sewage Treatment Plant (Turkey)

Auditing design submissions from Turkish contractor.

1992 - 1994

Glaxo Research & Development Ltd.

Position: Electrical Engineer (Contract)

Duties: Auditing design submissions, drawings and protection studies from Consultants and Sub-Contractors for general building services projects, hazardous areas and sterile/laboratory/animal areas. Setting Consultants briefs; field engineering activities; attendance at factory and site tests; commissioning witnessing and supervision. Production of GRD Protection Guidance Manual and standard protection schematics; updating of GRD Standard Specifications.

Projects: Stevenage Research Campus

Checking site 11kV distribution and resolving, with the consultant, a number of problems discovered. Carrying out a study of site loads, capacity and resilience of HV and LV distribution systems under normal, abnormal and standby generator conditions. Auditing Consultants protection study, power systems analysis and generator automatic load step control proposals. Taking the lead role in commissioning general services and a complex fire alarm system for a warehouse facility.

Ware Site

Establishing Consultants briefs for an animal facilities project and a replacement LV switchgear project incorporating PLC controls and standby generation. Auditing submissions and protection studies from Consultants and Sub-Contractors. Attendance at factory and site tests; establishment and supervision of test procedures; training of maintenance engineers. Carrying out a protection study for a similar project to those above.

1988 - 1992

FHP Partnership.

Position: Section Leader (from 1990) Senior Engineer (1988 - 1990).

Duties: Supervising the work of senior and intermediate electrical engineers. Planning resources and drawing production for new projects whilst maintaining commitment to on-site projects.

Full design responsibility for projects from initial conception to completion. Direct liaison with clients and design team members throughout a project.

Production of design reports for all aspects of the project to reach the optimum solution by assessing all viable alternatives.

Attendance at project, design and site meetings. Approval of sub-contractors working drawings.

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Projects: Computer Centre - Three number at 25,000sq.ft. each.
Project electrical value - £3 million.

Specification and tender of 11kV switchpanels to cater for new 20MVA supply. Design of 11kV and LV distribution system and selection, by pre-tender, of switchgear and transformers. Production of preliminary design concepts for all aspects of the electrical services. Liaison with client, architect and quantity surveyor. Supervision of a team of four engineers in the production of tender documents. Sub-contractor selection, interviews and tender analysis. Site supervision and temporarily deputising for the Supervising Officer. Carrying out a protection study.

Speculative Offices - 200,000sq.ft.
Project electrical value - £2.5 million.

Four office blocks from a development of seven. Formulation of electrical services concepts to meet architect and client requirements whilst remaining within budget. Space planning for electrical services. Liaison with client and design team members on site infrastructure requirements. Supervision of a team of five engineers in the production of electrical tender documents. Analysis of tenders, sub-contractor interviews and recommendations. Attendance at site meetings.

Distribution Centre -
Project electrical value - £200,000.

Liaison with client and design team members. Supervision of the production of electrical tender documents. Analysis of tenders, sub-contractor interviews and recommendations. Attendance at site meetings.

Japanese Bank - 150,000sq.ft.
Project electrical value - £5.5 million

Development of design from client brief to completion. Production of design reports and subsequent pre-tender, evaluation and selection of transformers, LV switchpanel, standby generators, uninterruptible power supplies, halon systems, general office, dealing rooms and executive areas lighting, lighting control system and various other electrical services. Supervision of a team of ten engineers in the production of tender documents. Attendance at site and project meetings.

1987 - 1988

J Roger Preston & Partners

Position: Senior Electrical Engineer

Duties: Design of all aspects of electrical building services to client brief.

Projects: RAF Hospital and Dental Clinic

Production of distribution schematics, cable sizing, distribution board schedules, security system and entrance area lighting scheme. Design of electrical services for associated dental clinic.

Speculative Office Block - 150,000sq.ft.

Investigation of incoming HV supply options and generator arrangements. Space planning and lighting control report.

Shopping Centre

Feasibility reports and space planning

1980 - 1987

Metropolitan Police Engineers

1986 - 1987

Position: Assistant Project Engineer

Duties: Formulation of brief for external consultants. Liaison with consultants and architects on electrical and mechanical design aspects. Checking drawings, specifications and reports from consultants and in-house drawing office for compliance with brief. Attending project, design and site meetings.

Projects: Magistrates Court - £1.7 million
Police Station - £2.8 million

1980 - 1986

Position: Electrical Design Engineer

Duties: Design of all aspects of electrical building services. Production of drawings, specification, estimates and builders work for various police premises.

1978 - 1979

Foster Wheeler Ltd.

Position: Mechanical Draughtsman

TRAINING AND QUALIFICATIONS

June 1978 'A' Level pure and applied maths

June 1980 TEC Level 2
Civil Engineering 2 merits
1 pass

June 1981 TEC Certificate
Building Services (Electrical) 5 merits

Sept.1981- TEC Higher Certificate 4 distinctions

June 1983 Building Services (Electrical) 6 merits

May 1981- Attended a full-time practical TOPs course at Slough Skill Centre in Electrical Installation
Feb. 1982 and Maintenance; and subsequently took and passed City and Guilds 236 Parts 1 and 2 in
Electrical Installation – Approved Electrician.

Sept. 1983-B Eng (HONS) Electrical and Electronic Engineering

July 1987 Grade 2.2 - day release course at South Bank Polytechnic.

Mar 1989 Awarded Corporate Membership by CIBSE

Nov 1991 Awarded Corporate Membership by IEE

Nov 1995 Authorising Engineer course - WTI.

May 1996 Authorised Person Electrical course - WTI.

June 1999 Authorising Engineer refresher course - WTI.

May 2002 Authorising Engineer refresher course - WTI.

July 2000 Awarded Membership of the Society of Light and Lighting

Apr 2003 Awarded Fellowship of the IEE

May 2003 Awarded Fellowship of CIBSE

General Various courses on CDM, Business Finance, Capital Planning and Business Case.

Professional Membership and Qualifications:

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