



PAUL MC KEE

CURRICULUM VITAE

SENIOR MECHANICAL
ENGINEER



PERSONAL DETAILS

PROFESSIONAL MEMBERSHIP:
AND QUALIFICATIONS:

BEng (Hons) MSc MIET

CONTACT DETAILS:

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DATE OF BIRTH:

22nd June 1981

NATIONALITY:

Irish

MARITAL STATUS

Married

PARTICULAR EXPERIENCE

A Mechanical Design Engineer from Kilkenny, Ireland. I have a strong educational background as I have achieved a first class honours degree in Mechanical Engineering and a Master of Science in Engineering Design and am currently working towards achieving my chartered engineer status. During my Masters year I specialised in the design, installation and environmental impact of Air Conditioning and cooling systems in the modern world which also gave me a good understanding of heat recovery applications including thermal wheels, recuperators, run-around-coils & heat pumps. I also conducted research into ways of increasing the usage of renewable energy sources.

I am a practical engineer with experience in aspects of mechanical services design, installations, refurbishment & construction, including knowledge of both Design and Environmental Issues, Property Health & Safety, Energy Conservation & Commissioning.

EMPLOYMENT HISTORY

2007 – Present

Technical Support Associates Limited, London, UK

Position: Mechanical Design Engineer

DUTIES:

Mechanical Services design, Heating Ventilation and Air conditioning Systems

Consulting with multi discipline engineers, contractors, architects and suppliers, including on-site inspections, services co-ordination and management.

PROJECTS:

Leinster Square:

HVAC design calculations for large London City hotel refurbishment including survey work, AutoCAD drawings, Cymap, equipment data sheets, etc.

Newington Estate:

The replacement of the district heating infrastructure that included 1 no. 3000kW boiler, five individual annex plant rooms and all underground pipework for an estate that incorporated 6,200m of underground primary & secondary distribution pipework serving over 430 individual apartments.

Thaxted House:

The complete boiler house refurbishment and new pipe work infrastructure for a block of 100 flats, which included the management of all on-site works, cost control of the budget and the issuing of contract instructions to contractors.

Isleworth School:

Cooling and Ventilation Modifications to large school extension which included the addition of heat exchangers, heat pumps, condensing units and related pipe work/duct work to over 10 classrooms.

Prime Surveys:

Survey work carried out monthly on different sites throughout Britain. These are associated with the maintenance of all plant, inspection of different air conditioning systems and associated ductwork & Health & Safety monitoring and checks.

60 Aberdeen Park:

Full design for the conversion of 7 flats with electric storage heaters and electric HWS to full gas central heating.

Harrow Central Mosque:

Complete HVAC design and public health services of a 4 story, 5,500m² Mosque and culture centre which comprises prayer halls, a library, multi-functional halls, commercial kitchen facilities, offices, a health clinic and retail units.

HSBC 8 Canada Square:

Condition Survey of all principal FM Assets & systems of 45 story office building. Asset tagging / bar-coding of all principal FM Assets. Comprehensive asset listings with PPM Task Sheet allocations for all FM elements. Thermal imaging of main panels and motor bearings. Vibration analysis of all principal AHU fans, large motors, pumps, & generators. Commissioning checks on random principal plant items.

Anti Scald Surveys:

Carrying out surveys for over 200 sheltered / supported housing for Circle Anglia & Merton Priory Homes. Principle SHD properties checked for

compliance with Anti-Scalding Policy, to assess the associated risks and to make recommendations for remedial works where appropriate.

2006 – 2007

Napier University, Edinburgh, Scotland

While studying for my Masters I did a lot of research work with industrial companies associated with the University on the design, installation and environmental impact of Air Conditioning and cooling systems in the modern world.

CPD, TRAINING AND QUALIFICATIONS

Year	Course	Qualification / Description
June 2001	Irish Leaving Certificate	Mathematics, English, Irish, Physics, Accounting, French, Technical Drawing
June 2003	Certificate	Certificate with Distinction in Mechanical Engineering from Cork Institute of Technology, Ireland
June 2004	Diploma	Diploma with Merit 1 in Mechanical Engineering from Cork Institute of Technology, Ireland
June 2006	Honours degree	BEng(Hons) degree in Mechanical Engineering with first class honours from Napier University, Edinburgh, Scotland
September 2007	Master of Science	Master of Science in Engineering In Mechanical Engineering Design from Napier University Edinburgh
October 2007	MIET	Awarded Membership of The Institute of Engineering and Technology
January 2008	CITB	Passed Construction Skills Professionally Qualified Person – Design, Health and Safety Test
February 2008	CYMAP	Completed Cymap Mechanical Building Services course
June 2008	CIBSE	Completed Energy Survey course
December 2010	IFSM	Completed Fire Risk Assessor course

SKILLS PROFILE, IT AND INTERESTS:

Skills Profile

I'm a motivated team player with excellent leadership qualities and developed communication skills proven in a range of areas including commercial, health, education and residential facilities.

I am also an engineer capable of undertaking survey and design work, develop reports and supervise on site with minimal supervision.

I am very good at planning and organising and can manage my time effectively and efficiently.

Full, clean driving licence.

IT

Software Packages:

- AutoCAD – *advanced*
- CYMAP (HVAC Design) – *advanced*
- iSBEM (for EPCs) – *advanced*
- ProEngineer - *advanced*
- Autodesk Inventor – *advanced*
- ANSYS – *advanced*
- Mechanica Wildfire – *advanced*
- MicroWinStep32 (for Siemens S7-200 CPU 214 PLC's) - *basic*
- Fortran - *basic*
- Arena - *proficient*
- Microsoft Office - Word, Excel, Power Point, Project - *advanced*

Operating Systems: Microsoft Windows Vista/XP/NT/2000

Interests

Hurling, soccer, swimming, cooking & socialising.