



# David Richardson

## REVIT MEP CAD TECHNICIAN

Based South London  
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### Profile

- Motivated M&E CAD Technician specialising in 3D Modelling.
- Currently Studying (BEng Hons) Electrical & Electronic Engineering with Systems for Environmental Services at London Southbank university. Due to Graduate 2013 – Day Release format sponsored by Capita Symonds
- Fully conversant in AutoCad, Currently working towards a thorough understanding of Revit MEP BIM software
- Problem solver who relishes a challenge.
- Proactive & hungry to learn (evidenced by studying second degree to have a greater understanding of electrical systems).
- Adaptable, willing to work outside of ones comfort zone as and when required to get a job done.

### Software Knowledge includes :-

- Autodesk Revit 2011
- Autodesk AutoCAD 2004 – 2009
- Autodesk Navisworks
- Bentley Microstation (2d only)
- Amtech Pro Design
- Dialux
- Microsoft Office Suite
- Adobe Creative Suite
- Solidworks

### Key Experience

- MEP Services Coordination
- Revit Modelling
- AutoCAD Modelling
- Space Proofing
- Production of engineering drawings for construction
- Graphical Presentation

### Employment

#### Capita Symonds, Sept 2008- Present

**Employed initially as a CAD technician only, but since starting part time degree was also given responsibility for some design engineering tasks. Day to day working as the most senior M&E CAD technician producing drawings for a variety of disciplines including Electrical, Mechanical, Ventilation, Water, Sanitation & Building Services as projects require.**

#### Example Projects at Capita Symonds

##### **National Grid Cable Tunnels**

Key member of the electrical design team, designing and coordinating electrical building services & distribution for 13 low rise industrial buildings. The buildings being part of a much wider project connecting National Grid substations together via 4 tunnels carrying 400kV cables underneath London. Core duties include designing lighting layouts and calculating illumination levels to client specifications. Other duties included coordinating LV distribution, Fire alarm, Communications and Lighting containment and modelling within Revit MEP.

##### **Bell Common Tunnel Refurbishment**

Worked within the M&E team on preliminary, submission and construction drawings for the refurbishment of a 500m tunnel on the M25. Key contributions included modelling the fire main in 3D, coordinating the west and east ventilation service shafts in 3D (services inside included containment and firemain), creating numerous 3D fly through videos of the project for design meetings and also actively using 3D modelling tools to solve design problems and detecting any service clashes.

## **Confidential Project**

Created 3D architectural and MEP models using Revit MEP for 2 future pumping stations as a proof of principle, Also conducted initial lighting calculations and lighting design using Dialux Software. Services modelled included pipework/ pump, electrical containment & lighting.

## **Ibsecad Ltd, June 06- Sept 07** **(University Industrial Placement)**

The 3<sup>rd</sup> year of product design degree required completion of a 36 week industrial placement. Worked initially as a trainee CAD draughtsman and progressed upto the role of advanced CAD draughtsman within the company. Typical duties included liaising with and presenting work to clients, creating and editing engineering drawings, solving design problems, visiting construction sites and doing various tasks around the office. Having completed the 36 weeks of my placement Ibsecad asked me to stay on until I was due back to University.

## **Example Projects at Ibsecad**

### **125 Old Broad Street**

Worked on site liaising with clients & sub-contractors producing coordinated services layouts. Disciplines worked with included Public Health, Lighting and Rooftop Plant. Other tasks included amending plant rooms and coordinating pipework within the toilet cores, creating builders work layouts to suit the design and rerouting rainwater pipes to avoid other services. The project was a refurbishment of the former London stock exchange building.

### **Bristol: Building Schools for the Future**

Worked with Skanska engineers producing construction drawings for Speedwell Technology College, Brislington Enterprise College and Whitefield Fishponds Secondary School.

## **Training courses/CPD attended**

CDM for Designers 2007

Amtech Pro Design

Bentley Microstation 3 day course

Autodesk Revit 3 day course

Teambuild UK (A multidisciplinary design competition for engineers under the age of 30 – finished top 4)

## **Education**

### **Middlesex University 2003-2008**

Product Design (BA Hons 2:1)

Foundation in Product Design

### **Grove College 2002 - 2003**

A Levels (Design & Technology, Business Studies and I.C.T)

AS Levels (Mathematics and General Studies)

### **Grove School 1996 - 2001**

10x GCSE's, 7 x B-C Inc Maths, English Language, Science & German

## **Additional Info**

CSCS Site Visitor Cardholder (expires Mar 2012)

Student Member IET

Full Clean UK driving licence

## **Leisure Interests**

Keen Sportsman regularly playing Hockey, Golf & Squash.

**-References & examples of work available upon request-**