

# James Edward Hemphill

**Specialization:** Web/Software Development (C#.NET)

Email: [hemphill101@hotmail.com](mailto:hemphill101@hotmail.com)

Website: [www.hemphill101.com](http://www.hemphill101.com)

Citizenship: United Kingdom

Telephone: +1 (345) 548 0337 (mobile)

Education: Sussex University: Geography BSc (with Hons) including GIS module (1 yr)  
Latymer Upper School: 3 A-Levels (B,B,D); 10 GCSEs (1 A\*, 8 A's, 1 B)



## Relevant experience/key qualifications

Six years experience in Web/Software Development, specialising in developing and maintaining systems within both public and private sectors. Key areas of expertise:

- Advanced knowledge of Web Development – Visual Studio C#.NET, VB.NET, HTML, LINQ, JavaScript, Crystal Reports IX, ComponentOne Studio 1.1 (e.g. PayPal, C1WebGrid), AJAX, XML, DotNET Nuke, Web Services
- Advanced Database Administration skills – SQL Server 2005 (T-SQL), Oracle 10g (PL/SQL)
- Advanced Graphic Design skills with Adobe Photoshop CS3, in the production of software icons, and conference banners.
- Server Administration – VMWare ESX Server, VMWare Infrastructure Client, HP SAN experience, DNS Management, Firewall/DMZ, ISA (Internet Security Acceleration) Server with Reverse Web Proxy, File Sharing (DFS), Active Directory
- Highly experienced in production of QA Documentation to support business procedures and processes. Version control using Visual SourceSafe/Trac Subversion. Bug fixing and enhancement tracking through Gemini 3.1.2 (Countersoft).
- Advanced GIS Development – ArcGIS 9.3 (ArcMAP, ArcCatalogue, ArcToolbox, ArcObjects), ArcGIS Server 9.3, ArcSDE 9.3, ArcInfo 9.3, ArcView 3.2, MapInfo 6.5, Cadcorp, Mapmanager, AutoCAD.
- Formal Training: ArcIMS 9 (ESRI Certified), ArcGIS 9, SQL, Java, XML, HTML. Attended the ESRI User Conference at San Diego CA (2005/2007), and the ESRI Developer Conference at Palm Springs CA (2008).

## Experience Record (Post - 2003)

### November 2007 to date: Programmer/Analyst, Cayman Islands Govt., George Town, Cayman Islands

Lead Developer for the Cayman Islands national website utilizing Visual Studio 2008. Advanced use of the following: C#.NET 3.5, Javascript, AJAX, HTML, CSS – [www.caymanlandinfo.ky](http://www.caymanlandinfo.ky)

Lead Developer for departmental web services allowing data from our SQL Server and Oracle databases, serving datasets (Lists and DataTables), crystal reports (byte[]), PDF images (byte[]) using C#.NET.

Lead Developer for the Emergency Management Mapping and Analysis (EMMA) software utilizing Visual Studio 2008 (converting old VB.NET 2.0 to C#.NET 3.5) and ESRI ArcObjects (ArcEngine 9.3).

Support provided for database and server administration, initiating integrity checks and IP configuration troubleshooting. Plus the provision of departmental IT support with software/hardware configurations and user profiles.

Major consultancy role in providing Turks and Caicos with a Land Registry Application (WinForms), departmental website and online mapping facility.

Lead Graphic Designer for several pieces of artwork for the URISA GIS Conference hosted by Grand Cayman in August 2008, plus the production of a comprehensive set of icons for several applications and websites.

Lead developer for the Parcel Mutations Maintenance System. Involved the batch conversion of static text files into a dynamic SQL Server database allowing for more effective searching.

Lead presenter for several website demonstrations to external clients and internal colleagues. The most significant of these was a training day for around 120 Real Estate professionals divided into 6 sessions.

Extensive research and testing with the ArcGIS Server Silverlight and Javascript APIs, in conjunction with map caching, in order to produce highly responsive web mapping applications. Including ArcGIS 9.3.1 Map Service Definition functionality.

### **May 2006 to November 2007: C#.NET GIS Developer, Landmark Solutions, Landmark Information Group**

Working as a Web Developer specialising in Visual Studio 2005 C#.NET with ArcGIS Server 9.2, in the relaunch of an historical maps website – [www.old-maps.co.uk](http://www.old-maps.co.uk).

Initialising PayPal with SQL Server to provide a platform for the sale of historic maps.

ArcObjects were integrated with C#.NET and HTML within the ASP.NET platform plus extensive work with Javascript to enable efficient display functionality.

Provision of an IT helpdesk environment, aiding colleagues with general IT hardware/software issues.

Geodatabase management using ArcSDE and ArcCatalog, with the production of several scripts in order to optimise geodatabase and raster catalog production.

Disconnected Editing tools provided in order for clients to check data independently from the live database.

### **Feb 2003 to April 2006: GIS Developer, Pavement Management, Jacobs Ltd.**

Working as a GIS Technical Developer for a variety of different business streams (Environment, Water, Landscape Architecture, Civil Engineering, Asset Management, Visual/Vehicle Surveys and Acoustics).

'Structures' database development in association with Oracle using ArcMap 9 and Citrix based web connections. Production of detailed specifications according to client requirements (ArcObjects).

Experienced use of ArcObjects, creating customised tools (VBA, VB.NET) to improve data processing times.

Development of the CONFIRM UK Pavement Management System (UKPMS) and its integration with the Kent Highway NSG, using Symology with complex SQL queries.

Asset Management survey audits in Renfrewshire, Scotland involving accurate data interpretation and the use of MapInfo 6.5 in the field.

Provision of GIS support and training for staff, operating a GIS 'Help-Desk' Environment.

Production of the Greenwich National Street Gazetteer to Level 3 using the Symology database platform, plus the provision of on-site GIS consultancy services.

## **Experience Record (Pre - 2003)**

### **July 2002 to Feb 2003: GIS Technician, Conservation and Design, Brighton and Hove City Council.**

Production of detailed maps of specific areas for use in the Schools Biodiversity Action Plan and the Stanmer Park Land Use Assessment project using Cadcorp and AutoCAD software. Implementation of statistical tests in order to achieve the most accurate interpretation of the results.

### **May 2002 to July 2002: GIS Technician, Groundsure Ltd., Suite 14 Level 4, New England House, Brighton.**

Digitisation of specific historical areas regarded as environmentally unsound using MapInfo 6.5

### **August 2000 to May 2002: GIS Technician, Seeboard Power Networks, Gordon Road, Haywards Heath**

Regular production of statistical reports and daily interactions with other divisions of the company via e-mail and telephone. Digitisation of ordinance survey information onto MapManager and running tests to check the network connectivity.

## **Personal Interests**

Outside of work, I enjoy experimenting with new web technologies in the production of websites for friends and co-workers (e.g. [www.starvinartists.net](http://www.starvinartists.net)) utilizing the open source JQuery JavaScript libraries and XHTML/CSS. I also play the guitar, piano (to Grade 6) and produce my own electronic music (Reason 3.5).

## **References**

### **Mike Phillipson**

Team Leader | Data Management & Systems Development  
Jacobs Babtie,  
Miller House, Lower Stone Street,  
Maidstone Kent  
ME15 6GB

☎: +44 1622 666415

✉: Mike.Phillipson@jacobs.com

### **Michael Sebhat**

Principal GIS Consultant  
Landmark Information Group  
The Smith Centre - Fairmile  
Henley-on-Thames  
Oxon RG9 6AB  
United Kingdom

☎: +44 7747 040815

✉: Michael.Sebhat@landmark.co.uk

### **Garry Green**

GIS Development Manager  
Lands and Survey,  
Cayman Islands Government,  
PO Box 1089,  
George Town  
Cayman Islands KY1-1102

☎: +1 345 244 3649

✉: Garry.Green@gov.ky