

## ABOUT ANDREW

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I am a senior consultant covering design, integration, development and implementation of applications.

Specialist with 7 years' experience of working in consultancy from project inception (including requirements workshops and meetings with client) to design, development and delivery. I am currently providing technical leadership to deliver a digital service supporting government departments geospatial needs using agile methodologies. I pride myself on my client-facing skills having the ability to discuss options with both technical and non-technical personnel.

As a senior consultant I have experience in delivering numerous agile projects involving; web development, requirements gathering, data analysis, user acceptance testing, data visualisation/transformation, infrastructure design and DevOps. I place an emphasis on client engagement managing stakeholders with clear communications forming strong client relationships.

### Functional expertise

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- 7 years consultancy experience
- Provided a key development and consultancy role in the delivery of a number of work streams for large functional projects.
- GIS expertise for development and technical consultancy for advanced GIS solutions.
- Ability to work with limited guidance performing daily tasks without supervision - currently the only Sopra Steria employee managing a DAERA team encompassing multiple GIS solutions.
- Experience of DAERA client technical GIS consultancy on GSAA, Veterinary Services, LPIS Editor and Farm Investment Planner applications from project inception to delivery.
- Design, development and implementation of new GIS technologies including GIS software design and development.
- GIS consultant with knowledge of the latest GIS developments and future strategy
- Expert in GIS consultancy for procuring and understanding client requirements, definitions and have a detailed understanding of system processes and architecture.
- Creating custom development of map widgets and workflows based on the requirements of GIS customers and stakeholders.
- Management and engagement : client-facing skills with a broad understanding of database technologies, technical system architectures and a proven ability to discuss options with both technical and non-technical personnel.
- Contributed to the definition of scope and deliverables for DAERA GIS applications.
- Expertise in High-Level and Low-level design of GIS Systems.
- Broad technical knowledge of multiple GIS applications
- Good communication skills – ability to adapt language to form relationships with technical and non-technical customers.
- Experience of working in consultancy, development and business analysis for GIS software applications.

- Client engagement and management throughout product lifecycle: from defining requirements and developing applications to supporting UAT and releasing applications to live environments.
- Promoted Sopra Steria GIS consulting solutions in LPIS review, LPIS Discovery and DAERA management workshops.
- Expert knowledge of latest DAERA and Sopra Steria applications, development and future strategy for GIS.
- Emphasis on client engagement including shaping of overall solutions with key internal and external stakeholders.

## Technical expertise

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- Educational qualification including PhD, MSc and BSc.
- Functional GIS expertise utilising Full ESRI software suite including ESRI Javascript API for developing HTML5 and Silverlight viewer applications.
- Open source GIS expertise of including : Open Layers, GeoServer , GRASS GIS, R Spatial, QGIS, and LASTools.
- Esri web app builder, ArcPortal and ArcGIS Online: developing map services, apps and external facing GIS applications.
- Application of Latitude Geographics Geocortex Suite of Software including : Geocortex workflow designer (VB.NET) and Geocortex Essentials Manager for managing and modifying sites (.xml/.xaml), Geocortex report designer and Geocortex Analytics.
- Technical expertise in data management of spatial data including FME Desktop and Server.
- Mobile Solutions including developing applications utilising Android .apk extensions for GIS Viewers.
- Knowledge of SQL Server (Oracle Spatial) including creating stored procedures, views and interactions to database from GIS Server.
- Technical Expertise of programming languages including : Python, ArcObjects (.NET), VB.NET, R Statistical Language, SPSS, .xml, .xaml, HTML5, Javascript and C#.
- Ability to work under pressure whilst still achieving demanding targets.
- Creation and maintenance of ArcGIS Server and ArcGIS Online map/feature/image services.
- Administrative experience utilising MS Visio, MS Word, MS Excel, MS PowerPoint, MS TFS and HP ALM Quality Center.
- Extensive experience of Use Case diagrams and Class Diagrams.
- Supporting clients in all aspects of their GIS requirements as a single consultant.

## Summary of Project Experience

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### **July 2016 to Present – Department of Agriculture Environment and Rural Affairs (DAERA) – GIS Consultant for Veterinary Services team within DSD (Digital Services Division)**

- Development of internal and external GIS viewer applications for DAERA.
- Lead GIS consultant with a sound knowledge of the latest GIS developments to advise and shape overall solutions for DSD.
- Specialist in GIS application development from project inception (including requirements workshops and meetings with client) to design, development and delivery.
- Clarifying requirements with product owners and clients prior to development.
- Contributed to shaping of overall solution with key internal and external stakeholders
- Designing, creating, testing and implementation of GIS software and solutions with focus on delivery to the client.
- Development of GIS viewers, workflows and custom activities.
- Technical environment: HTML5, Geocortex, Javascript, VB.NET, ESRI ArcServer/ArcMap/ArcCatalog, C#, Oracle Spatial, .xml, .xaml and FME.

### **July 2015 to Present – Department of Agriculture and Rural Development (DARD) – GIS Consultant for DARD Corporate GIS : Geospatial Aid Application (GSAA)**

- Development of External GIS viewer applications for DARD.
- AGILE development model - Development activities relating to tasks derived from User Stories.
- Clarifying requirements with Business Analysts and clients prior to development.
- Development of viewers, workflows and custom activities.
- Extensive knowledge of the latest developments and future strategy of GIS for DEARA including infrastructure, solutions and applications.
- Technical Environment: HTML5, Geocortex, Javascript, VB.NET, ESRI ArcServer/ArcMap/ArcCatalog, C#, Oracle Spatial, .xml, .xaml and FME.

### **August 2015 - DEFRA – GIS consultant for Legacy LMS**

- GIS consultant to DEFRA for developing FME workbenches for RLR to LMS : Extract, Transform and Load (ETL).
- Developing workbenches into three main work streams : 1. Loading data in from legacy dataset, 2. Transforming data to communicate and be sampled within new application, 3. Output of data load into new and relict applications.
- Technical environment:FME, Geoserver, OpenLayers, Javascript.

### **June 2014 to Present – Department of Agriculture and Rural Development (DARD) – GIS Consultant for DARD Corporate GIS : LPIS Editor and eMap**

- Development of Internal and External GIS viewer applications for DARD.
- Working as link between client and development team utilising established technical expertise.

- Development of client viewer applications with advanced editing capabilities.
- Development of public facing external map viewer applications.
- Worked closely with the Project Manager in running workshops to establish high level goals to digitise a government field mapping service.
- Both short term and long term goals were established for further creation into smaller projects to ensure effectiveness of application.
- Liaising with client to write test scripts for UAT.
- Technical environment: HTML5, Silverlight, Javascript, VB.NET, ArcObjects, C#.Net environment.

## Summary of Previous Employment

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### **December 2012 to March 2013 – Association of Directors of Environment, Economy, Planning & Transport (ADEPT) / Roads Service – Principle Project Analyst**

- Development of online viewers for Roads Service based on Flexviewer.
- AGI Award winner for developing models within viewer called Integrated Slope Assessment Toolbox (ISAT). Project called 'Integrated spatial approach using GIS for Slope Risk Assessment – The Roads Service Model'.

### **September 2010 to June 2014 – Queens University Belfast – PhD Student**

- Fully funded PhD in GIS.
- PhD title 'Spatial analysis approaches for the characterisation and monitoring of slope instability and deformation'.
- International consultancy in PhD developing web applications for Canadian Rail Research Laboratory

### **May 2008 to September 2010 – RSK – Environmental Consultant**

- Employed directly from my MSc course as a consultant for RSK Ireland, Ltd. As a consultant I carried out many duties including client and sub-contractor liaison and managing large environmental projects.

## Education

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- 2016 – Sopra Steria Fast Track Academy
- 2015 – BCS certificate for BCS Foundation Certificate in AGILE
- 2014 – PhD in Spatial Analysis and GIS
- 2013 – Association of Geographic Information (AGI) student of the year
- 2008 – MSc in Landscape, Heritage and Environmental Science (GIS)
- 2007 – BSc in Geography (2:1)

## Language(s)

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- English (native speaker)