

MICHAEL OBERDRIES

Curriculum Vitae



Oberdries Consulting Ltd
Spatial Data Solutions

OBERDRIES CONSULTING LTD provides consultancy services to business on location intelligence problems and is especially interested in complex spatial data analytics, spatial data interoperability, and application integration challenges.



'GIS Professional - Asia Pacific' (GISP-AP) for spatial information professionals, certified by the Geospatial Council of Australia (GCA)



'FME Certified Professional' and 'FME Flow Certified Professional' designations, awarded by Safe Software.



'Registered Professional Surveyor' (RPSurv) status, awarded by Survey and Spatial New Zealand



Member, Geospatial Council of Australia (GCA)

Personal Details

Name	MICHAEL OBERDRIES
Company	OBERDRIES CONSULTING LTD Project collaboration with LOCUS LTD (Safe Software authorised reseller)
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LinkedIn	http://www.linkedin.com/in/michaeloberdries
Website	https://www.oberdries.com/ https://locusglobal.com/
Nationality	New Zealand Holder of dual passports: New Zealand and the UK
Leisure Pursuits	Keen road cyclist Open water swimming Freshwater fly fishing Past President (2012 to 2018) – Roskill Swimming Club

Professional Qualifications

Year	Institution	Qualification
1993 to 1995	University of Canterbury Graduated 1995	MSc in Environmental Science (with First Class Honours) majoring in GIS and Remote Sensing
1989	Survey and Spatial New Zealand	Certificate of Registration Certificate of Competency
1983 to 1986	University of Otago Graduated 1987	Bachelor of Surveying (with Credit)

Recent Career History

Period	Organisation	Engagements
Nov 2023 to Feb 2024	Auckland Council	Spatial Data Consultant (1) Authoring an FME workspace to automate the harvest of 24,230 AGOL attachment files (images, video, documents) pertaining to the Cyclone Gabrielle flood events in February 2023. (2) Authoring an FME workspace that automates Survey123 API requests to generate 2,530 standardised Cyclone Gabrielle flood reports (PDF). The resultant AGOL attachment files and Survey123 report files were linked to the correct Council Property ID and uploaded into ACCORD so they could be made visible in Council's LIM Reporting.
Jul 2022 to Aug 2023	Ministry of Primary Industries (MPI)	Spatial Data Technical Lead A complex spatial data transformation engagement to migrate the spatial data repositories for the MPI 'Emissions Trading Scheme' (ETS) from the legacy MPI CCIS platform to new MPI Tupu-ake platform
Apr 2022 to May 2022	Koordinates Ltd	Spatial Data Consultant Developing an FME Custom Transformer that embeds the Koordinates Site Admin APIs to upload and publish, spatial layers, tables and document attachments to the Koordinates Platform
Jan 2022 to Apr 2022 Sep 2022	2degree Mobile Ltd 2degrees Networks Ltd	GIS Project Management Managing a contract resource developing a customer targeting visualisation dashboard in ArcGIS Online training and documentation and handover Managing a contract resource building a bulk address geocoding application
Sep 2021 to Oct 2021 Jun 2022 to Jul 2022	Picobyte Solutions Ltd	Spatial Data Consultant Transformation of LINZ (LDS) datasets to enable Picobyte vehicle tracking software to identify "off-public-road" events validating and testing resultant RUC reporting

May 2021 to Jun 2021	Stats NZ Ltd	Spatial Data Consultant Spatial enablement of Stats NZ agricultural statistical surveys
Jan 2022 to Mar 2022		FME automation of LINZ (LDS) cadastral changeset processing FME automation of LINZ / Stats NZ Meshblock boundary alignment change detection
Jun 2019 to Jun 2020	Auckland Council (RIMU – Research and Evaluation Unit)	Spatial Data Consultant Capacity for Growth Study - Phase 2 Data Changes Performance Enhancements Modelling Enhancements Reporting QA FME
Feb 2021 to Mar 2021		Housing and Business Assessment (HBA) for Capacity for Growth Study - Phase 2
Sep 2017 to Sep 2022	Auckland Transport Ltd ** services via the 'Locus Consortium' registered with the Auckland Council Panel	FME Form / FME Flow Tech Lead Vertica Kafka Enterprise Asset Management (Infor IPS and EAM) RAMM Data CoreLogic Data Auckland Council Data E-Scooters Data Automation / Replication GTFS Intech Geocoding IPV IVU Public Transport Telemetry Real-time Data HOP Card Analytics Parking Footpaths NIWA NetCDF ROM SCATS ArcSDE Data Replication AGOL SharePoint Online Interoperability APIs REST Services Smartrak Data Snitch Data Tube Count Data Public Transport Predictive Analytics FME Flow Administration FME Form Best Practise
May 2017 to Jun 2017	Astrata Ltd	Spatial Data Consultant Vehicle Tracking TomTom Data Geoprocessing Automation FME
Mar 2017 to Jun 2018	Auckland Council ** services via the 'Locus Consortium' registered with the Auckland Council Panel	FME Form Consultant Dr Haydn Reid Smart Cities Data Portal LINZ LDS Property Data Asset Infrastructure Spatial Data Standards (NZAMS) Infrastructure Spatial Data Analytics Asset Data Schema Validation MSSQL FME
Jun 2016 to Aug 2016	Eagle Technology Ltd	Spatial Data Consultant Vector Ltd First Gas Ltd Smallworld to Esri Data Migration Utility Gas Assets FME

May 2016	Crown Fibre Holdings Ltd	Spatial Data Consultant Fibre Access Geoprocessing Shared Access Land Parcels FME
Dec 2015	Locus Ltd	Spatial Data Consultant ikeGPS JSON Data Formats FME
Mar 2015 to Jul 2019	Data Insight Ltd Valocity Ltd	Spatial Data Technical Lead LDS Property Data LDS WFS Web Services PostGIS Valocity Valuation Platform Valocity Rural Platform Geoprocessing Spatial Analytics Custom Spatial Data Views Carto Web Mapping Platform Automation of Batch Processing NZLRI Data Australian Data FME
Sep 2014 to Jan 2015	EROAD Ltd	Spatial Data Consultant HERE RDF Data PostGIS Migration Public / Private Road Ownership Geosmart Road Data Migration FME
Jul 2014 to Oct 2014	Critchlow Ltd	Spatial Data Consultant iSite Media GTFS Bus Trip Events Outdoor Advertising Reach and Impact FME
Jul 2014	Augview Ltd	Spatial Data Consultant Visionstream Spatial Data Clip Extracts Automation FME
May 2014 to Jul 2014	Stats NZ Ltd	Spatial Data Consultant LINZ LDS Property Data Meshblock Conflation Tools Geoprocessing Geocoding FME
- Independent Spatial Data Consultant from May 2014 -		

Aug 2011 to May 2014	Critchlow Ltd	Senior Geospatial Consultant Management Team Business Development Tech Lead Auckland Council Capacity for Growth Study ALGIM GIS Awards 2013 SOLGIM Awards 2013 iSite Media Bus Advertising Media NZ Direct Marketing Awards 2013 (x6) Smart Routing Geococoding FME
Sep 2009 to Aug 2011	we-do-IT (NZ) Ltd	Senior Geospatial Consultant Vector Smallworld GIS SAP Integration FME Spatial Data Interoperability
Apr 2007 to Mar 2009	VisFleet Ltd	Geospatial Manager and Shareholder PostGIS UMN Mapserver Data Management Geoprocessing Quality Assurance Technical Support Problem Solving SME Technology Business Development FME
- Returned to salaried employment from April 2007 -		
From July-2001 to April 2007 (7 years) OBERDRIES COINSULTING LTD provided GIS consultancy services primarily to Local Government with a focus on Esri ArcSDE geodatabase design and build, spatial data migration, and ArcSDE geodatabase integration with council asset management systems.		
Carter Holt Harvey New Plymouth District Council Manukau City Council Waitakere City Council Tauranga City Council Rodney District Council Nelson City Council Environment Bay of Plenty Rotorua District Council		
- Independent Spatial Data Consultant from July 2001 -		
Nov 1999 to Jun 2001	North Shore City Council	Senior Analyst – Geographic Info Services
Mar 1999 to Oct 1999	North Shore City Council (Contractor)	Senior GIS Analyst
Sep 1998 to Feb 1999	Alchemy Group Ltd. (contractor)	GIS Consultant – Project Scoping
Nov 1996 to Aug 1998	Rayonier New Zealand Ltd.	Senior GIS Analyst
Mar 1995 to Nov 1996	University of Auckland	Senior Tutor – GIS

Technical Skills Set

Michael is a problem solver with a recognised ability to think analytically and to innovate.

An expert in the application of Safe Software's FME Form and FME Flow platforms:

- Data Integration (combining data types and formats).
- Application Integration (maintain, manage, and keep applications up to date).
- Data Transformation (merging, aggregating, filtering, enriching, splitting, joining).
- Data Conversion (enabling data accessibility by converting and restructuring data).
- Spatial and non-spatial data interoperability.
- Spatial and non-spatial data quality assurance and validation.
- The development of a wide range complex geoprocessing / spatial data analytics tasks.
- The development of a wide range of automated batch geoprocessing tasks.
- The development and authoring of geospatial web services.
- Automations (schedules, triggers, logging, notifications for data processing tasks)

Experience with open source geospatial software, including:

- The PostgreSQL / PostGIS open source spatial database management systems.
- The Carto® cloud-based web mapping platform – see <https://carto.com/>
- The UMN MapServer open source web mapping development environment.

Extensive experience with ESRI ArcSDE geodatabase design and implementation, including:

- The design and development of large ArcSDE geodatabases
- ArcSDE database administration and tuning using ArcCatalog and the ArcSDE command-line utilities (predominantly on SQL Server).
- The design and development of raster ArcSDE geodatabases.
- Many ArcSDE geodatabase implementations for the Local Government sector.
- Integrating ArcSDE with asset management systems like Hansen (utility services data) and Confirm (park asset data).

Wide geospatial consultancy experience, including:

- Qualifying business development opportunities.
- Spatial system reviews; business requirements analysis; feasibility studies; functional specifications; and quality assurance.
- Geospatial project planning - scoping, task identification, time-line and costs determinations.
- Geospatial application development - design, coding, testing and documentation.
- Preparation of detailed project related user and technical documentation

Detailed knowledge of GPS device technologies used in the transport and logistics sector.

Detailed knowledge of the event-telematics used in the transport and logistics sector.

An in-depth understanding of cartography, geodesy and the application of GPS (GNSS) technologies.

An in-depth understanding of the coordinate transformations used in New Zealand and Australia to migrate spatial data between the different geodetic datum and map projections.

Personal Attributes

Michael has an extensive background in the provision of spatial data solutions in a career that spans over 25 years. Since 2001 he has been consulting to business on location intelligence problems and is especially interested in complex spatial data analytics and large spatial data interoperability challenges.

His work experience crosses a wide range of industry sectors including geo-marketing, utilities, transport and logistics, local government, land and environmental information systems, asset management systems, forestry, and GIS in tertiary education provision and research.

Michael is passionate about solving problems in the spatial domain and possesses a wide conceptual and applied knowledge of geographic information science, combined with an excellent understanding of the spatial information marketplace and supporting infrastructures in New Zealand.

Much of the work undertaken by OBERDRIES CONSULTING LTD has been project focussed, often bringing together participants from a diverse array of backgrounds. Through this experience Michael has developed strong interpersonal skills, an enthusiasm for team dynamics and an innovative results-oriented work ethic.

Professional Development

Meeting the annual Professional Development requirements for my 'GIS Professional – Asia Pacific' (GISP-AP) certification from the 'Geospatial Council of Australia' (GCA)

Meeting the annual Professional Development requirements for my 'Registered Professional Surveyor' (RPSurv) certification from 'Survey and Spatial New Zealand'

Accumulating knowledge and work experience that will ensure I maintain my 'FME Certified Professional' and my 'FME Flow Certified Professional' designations from Safe Software Inc.

Recent Publications / Presentations

Oberdries, M. 2019. 'Lime Scooter-ing around Auckland'. Presentation to the NZ ESRI User Conference 2019.

Oberdries, M. 2019. 'Ground-Truthing Routing Analytics - An Auckland Ferries Case-study'. A lecture presented to a 4th-year Spatial Analysis class at the School of Surveying, University of Otago.

Oberdries, M. 2019. 'Growing Pains: Measuring the Capacity for Growth within Auckland City'. A University of Otago guest presentation to interested staff and students at the School of Surveying.

Oberdries, M. 2019. 'Ground-truthing Routing Analytics: An Auckland Ferries Case-study'. A presentation to the NZ FME World Tour, hosted by Locus in Auckland, Wellington and Christchurch 2019.

Oberdries, M. 2018. 'Some Lesser-Used FME Data Wrangling Techniques'. A presentation to the NZ FME World Tour, hosted by Locus in Auckland, Wellington and Christchurch 2018.

Oberdries, M. 2017. 'Working with Data using FME Web Connections'. A presentation to the NZ FME World Tour, hosted by Locus in Auckland, Wellington and Christchurch 2017.

Oberdries, M. 2016. 'FME "Big Data" Strategies'. A presentation to the NZ FME World Tour, hosted by Locus in Auckland, Wellington and Christchurch 2016.

Oberdries, M. 2015. 'Spatial Analysis using Text String – Introducing the Geohash'. A presentation to the NZ FME World Tour, hosted by Locus in Auckland, Wellington and Christchurch 2015.

Oberdries, M. 2015. 'Meshblock Conflation Workshop'. A 2015 presentation to a 1-day workshop hosted by senior staff from LINZ and Statistics New Zealand on a spatial data processing methodology (conflation) that allows cadastral data changes to be propagated forward into the Meshblock area unit boundary definition.

Oberdries, M. 2014. 'Growing Pains: The Auckland Capacity for growth Study'. A presentation to the FME International User Conference 2014, Vancouver, B.C., Canada.

Referees

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