

Saber Razmjooei

GIS Specialist / Senior Hydraulic Modeller

Profile

Saber works as a senior water resources consultant with over 11 years of experience. He specialises in GIS, hydraulic modelling and hydrological studies.

Saber has worked with a number of engineering consultants across England and Wales to deliver flood risk mapping for the Environment Agency. He has extensive knowledge of hydraulic modelling and river engineering and works with modelling software packages such as ISIS, MIKE 11, HEC-RAS, TUFLOW, ANUGA and InfoWorks.

Saber manages and provides technical inputs for 1D and 2D river modelling work in a wide range of flood risk assessments and flood risk management projects. He specialises in applying technologies such as geodatabases, GIS analytical tools and web mapping to increase the quality and efficiency of his consultancy work.

Languages

English	Fluent
Persian	Mother tongue
Arabic	Intermediate
Italian	Basic

Education and Professional Membership

- 2001–2002 **MSc**, *The University of Birmingham*, UK.
Water Resources Technology and Management
- 1997–2001 **BSc**, *Shiraz University*, Iran.
Irrigation and Drainage Engineering

Experience

2009–Present **Partner, Lutra Consulting, UK.**
Projects

- 2014–Present: GIS support team, 1st line support staff
 - Leading Lutra's GIS support team to provide timely resolutions for customers.
- 2009–Present: Various training courses, Course tutor
 - Running GIS training courses in QGIS, GRASS, PostGIS & hydraulics and hydrological modelling.
- 2014: Preston Flood Alleviation Scheme (Environment Agency), Senior hydraulic modeller, subcontractor
 - Assessing various flood alleviation schemes for the River Ribble and its tributaries in Preston.
- 2013: Wadi Hanifah Flood Risk Mapping (Saudi local government), Senior hydraulic modeller, subcontractor
 - Mapping flood risk in Wadi Hanifa, Riyadh, Saudi Arabia.
- 2012: Newbuildings Farm Flood Mapping Study (THDA Consulting Engineers), Senior hydraulic modeller
 - Developing a hydraulic model of Newbuildings Farm, Staffordshire and producing flood zones.
- 2012: Beckenham Hill Trash Screen (Environment Agency), Senior hydraulic modeller, subconsultant to Halcrow Group
 - Assessing various culvert design configurations including a bypass channel, providing design guidance to reduce upstream flood risk and assessing residual risk.
- 2012: Monkstonmead Outfall Study (Environment Agency), Senior hydraulic modeller, subconsultant to Halcrow Group
 - Developed an ISIS-TUFLOW model to assess the best options for reducing flood risk from the Monkstonmead watercourse in Ryde, Isle of Wight.
- 2012: Sandwich Town Tidal Defence (Environment Agency), Senior hydraulic modeller, subconsultant to Halcrow Group
 - Provided detailed analysis of the upstream impacts of the proposed flood defence scheme in Sandwich, Kent.
- 2011: Catchment Finder, GIS specialist

- Developed Catchment Finder, an online hydrological catchment delineation tool built on open source technologies.
- 2011: East of England Landscape Typology Interactive Mapping (Landscape East), GIS specialist, subconsultant to Countryside
 - Developed server-side GIS components for the Landscape East web-mapping application.
- 2010: Rainforest Foundation UK Geo-database (Rainforest Foundation UK) , GIS specialist
 - Planned a GIS framework for Participatory Mapping in the Congo Basin.
 - Provided GIS training for Rainforest Foundation staff and other NGOs.

2006–2011 **Senior Hydraulic Modeller**, *Halcrow Group Ltd*, UK.

Projects

- 2010-2011: Drain London, Senior hydraulic modeller.
 - Lead a team of GIS specialists and hydraulic modellers to develop surface water maps for Chelsea and Kensington, Westminster, City of London, Lewisham, Bromley, Greenwich and Bexley.
- 2006-2011: TUFLOW tutor.
 - Provided training courses across UK.
- 2006-2011: Various flood studies, Senior hydraulic modeller:
 - River Wey Flood Strategy.
 - Lyminster Flood Warning and Flood Mapping.
 - Chelmsford Flood Strategy Review.
 - Lewisham Strategy Review, London.
 - Upper Humber Pluvial Flood Risk Study.
 - Southampton Water Communities ABD and Hazard Mapping.
 - Edenbridge Modelling, ABD and Hazard Mapping.
 - Chichester Harbour ABD and Hazard Mapping.
 - Stubbington, Fareham and Gosport ABD and Hazard Mapping.
 - Ravensbourne Catchment Delivery Plan.
 - Coventry Surface Water Mapping.
 - Emsworth Outfall Review.
 - Aylseford Flood Alleviation Scheme.
 - Syngenta Site Flood Risk Assessment.
 - Strategic Flood Risk Assessment in Swale Borough.
- 2007-2009: FRA Review, Senior hydraulic modeller.

- Reviewed Flood Risk Assessment studies across England and Wales on behalf of the Environment Agency.
- o 2006-2009: Pegwell Bay to Kingsdown Strategy Review, East Kent, Senior hydraulic modeller
 - The project was awarded Sustainable Construction/Environmental Enhancement Award (2009) due to its innovative approach to mitigating flood risk in Sandwich Kingsdown.

2003–2005 **Hydraulic Modeller**, *Capita Symonds*, UK.
Projects

- o 2003-05: Various flood risk assessments, Hydraulic modeller:
 - Strategic Flood Risk Assessment in Avonmouth.
 - River Avon in Malmesbury.
- o 2003-2005: Flood Risk Study for the London 2012 Olympic bid, hydraulic modeller.
 - Assessed flood risk for various proposals for the London 2012 Olympic bid.

2001–2003 **Graduate Hydraulic Modeller**, *Babtie Group Ltd*, UK.
Projects

- o 2001-2003: Gatwick Stream Feasibility Study, Graduate modeller.
- o 2002-2003: Flood Risk Assessment in Spalding to Eye and Lincoln Eastern Bypass, graduate modeller

Publications

Saber Razmjooei. Surface Water Mapping and Flood Risk Management. WaPUG, 2008.

Saber Razmjooei. Benchmarking of 2D Hydraulic Modelling Packages. Environment Agency, 2010.