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| **Muhammad Faisal Hanif**  Cell: +92 320 507 4495 **|** Email: hanif.m.faisal@outlook.com |

**Professional Experience**

**Special Monitoring Unit, Chief Minister’s Office, Government of the Punjab, Lahore Nov 2017 - Current**

***Analyst***

**Agriculture and Rural Economy:** Aligned the priorities of the government with the Ministry of Agriculture, Irrigation and Livestock Departments, Punjab to introduce overarching reforms in the rural sector. The reforms including but are not limited to:

* Facilitated in the development of a comprehensive and integrated agriculture policy impacting almost 70 million rural population of Punjab promoting diversification, value addition, and inclusive growth by focusing policy at small commercial farmers, rural women, and youth.
* Initiation of several projects to improve access to agriculture inputs and interest-free loans to increase farm productivity.

**Clean Drinking Water Roadmap:** Engaged directly with Government stakeholders and facilitated in determining strategic interventions, targets, and trajectories for efficient water distribution to meet the targets set by the Chief Minister. The major reform agendas were to:

* Provide equitable and improved access to clean drinking water across 36 districts of Punjab.
* Facilitate tagging and quality assurance of more than 11,000 water facilities across Punjab by ensuring the functionality of the Monitoring and Evaluation system.
* Utilize Monitoring and Evaluation data of ~11,000 water facilities to analyze access and quality issues across Punjab.
* Manage interdepartmental liaison with all major stakeholders such as Water and Sanitation Agencies, Public Health Engineering Department, Local Governments and external partners like UNICEF, and WaterAid to engage them for efficient water utilization and distribution.

**P.M Auto Industries (Pvt.) Ltd., Hyderabad (Pakistan) Aug 2013 – May 2014**

***Management Trainee Engineer***

* Complete production plan by scheduling and assigning personnel; accomplishing work results; establishing priorities and resolving problems.
* Maintain quality service by establishing and enforcing organization standards.
* Resolve personnel problems by analyzing data; investigating issues; identifying solutions; recommending actions.

**High-Efficiency Irrigation Systems (HEIS), Four Brothers Group – Lahore (Pakistan) Mar 2013 – Jun 2013**

***Intern***

* Consoled and educated farmers and agriculturalists on the latest farming and irrigation aspects.
* Interacted with farming professionals, agronomists, agricultural technicians, and farmers to create awareness for the adoption of high-efficiency irrigation systems (HEIS).
* Supervised the design and installation of several HEIS (drip and sprinkler irrigation systems) in rural areas of Sargodha District, Pakistan.

**Education & Qualifications**

**Master of Science (MSc) in Civil Engineering by Research Jul 2014 – Sep 2017**

Universiti Teknologi PETRONAS, Malaysia

Area of Specialization: Water Resources Engineering

Dissertation: ***"Modelling the impact of land-use changes on the hydrological regimes of Perak River Basin".***

The primary objectives of the research projects include but were not limited to:

* Determine the most promising factors in flood escalating in tropical river basins.
* Investigate the spatial changes in land cover over Perak River Basin, Malaysia.
* Analyse the spatiotemporal trends in rainfall over Perak, Malaysia.
* Validation of the rainfall-runoff model for the Perak River Basin.
* Prediction of future land use scenarios based on the previous land cover changes rate and their impact on river hydrology.
* Recommendations based on the result to better plan the future developments in the river basins.

Also, worked as a member in a project entitled ***“Development of Decision Support System (DSS) for Wetlands Planning, Design and Management Using Remote Sensing and GIS”.***

**Bachelor of Science (BSc) in Agricultural Engineering Sep 2009 – Jul 2013**

University of Agriculture, Faisalabad, Pakistan **CGPA: 3.52 / 4.00**

**Publications**

* Yusof, N. Z., N. S. Samsuddin, **M. F. Hanif,** and SB Syed Osman. "Peat soils stabilization using Effective Microorganisms (EM)." IOP Conference Series: Earth and Environmental Science, vol. 140, no. 1, p. 012088. IOP Publishing, 2018.
* **Hanif, M.F.** M.R.Mustafa, A.M.Hashim, and K.W.Yusof, "Impact of Climate and Anthropogenic Changes on Streamflows of Kinta River Basin" Advanced Science Letters, 2016.
* **Hanif, M.F.** M.R.Mustafa, A.M.Hashim, and K.W.Yusof, "Deforestation alters rainfall: a myth or reality," IOP Conference Series: Earth and Environmental Science, vol. 37, pp. 012-029, 2016.
* **Hanif, M.F.** M.R.Mustafa, A.M.Hashim, and K.W.Yusof, "Spatio-temporal change analysis of Perak river basin using remote sensing and GIS," International Conference on Space Science and Communication (IconSpace), pp. 225-230, 2015.

**Training**

* Training on "Using NASA Remote Sensing for Disaster Management", ARSET (Applied Remote Sensing Training), National Aeronautics and Space Administration (NASA), June 9 – 30, 2016.
* Industrial training on "Hydrologic and Hydraulic modelling using HEC-HMS and HEC-RAS", Sarawak Energy Berhad, Kuching, November 9 – 13, 2015.
* Training workshop on "Remote sensing for monitoring agricultural crops and assessing soil salinity" Saline Agriculture Research Center, University of Agriculture, Faisalabad, February 03 – 15, 2014.

**Honours & Awards**

* Awarded with a commendation certificate for being an Employee of the Quarter, June 2018.
* Recipient of Graduate Assistantship, Universiti Teknologi PETRONAS, Malaysia, July 2014 – June 2017.
* Beneficiary of Student Merit Scholarship, University of Agriculture, Faisalabad, 2010 – 2012.

**Professional Memberships**

* Registered Engineer with Pakistan Engineering Council (PEC), May 2014 – Present
* Associate Member, American Society of Civil Engineers (ASCE), November 2019 - Present

**Language Proficiency**

* Urdu & Punjabi: Native Speaker
* English: Fluent Speaker, ***IELTS Score***: **7.5** (L 7.0; R 8.0; W 6.5; S 7.5)

**References**

* **Dr Muhammad Raza Ul Mustafa**

Associate Professor

Department of Civil & Environmental Engineering,

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* **Dr Mubasher Hussain**

Manager Hydropower Investigations

Hydropower Development Division

Sarawak Energy Berhad, Kuching, Sarawak, Malaysia

Cell: +60 19 834 5799 **|** Email: [mubasher.hussain@sarawakenergy.com](mailto:mubasher.hussain@sarawakenergy.com)

* **Mr Rao Anique Younas**

Junior Associate

Special Monitoring Unit, Chief Minister’s Office

Government of the Punjab, Lahore, Pakistan

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