**BILAL**

**Deputy Hydrographer**

**Contact:** **bilal-393431@2freemail.com**

**CAREER SUMMERY**

I am specialized in Hydrographic Survey, Land Survey, oceanographic survey and Geological investigations with more than 9 years of professional experience. I am seeking a responsible and challenging position in the esteem organization to perform smart work, which give me the opportunity to utilize my surveying and geological skills, maximize my potential, and keep continue to devote my professional skills into the optimal growth of Organization. I have the honor of being part of several National level Hydrographic projects. I have served as **Field Survey Officer** for 5 years at **Survey** **Vessel** in Pakistan Navy and presently performing the duties of Deputy Hydrographer at **Inland Water Transport Development Company (IWTDC)**, Pakistan. I enjoy researchoriented tasks and put my best efforts to produce creative results.

**ACADEMIC CAREER**

**ACADEMICS & ACHIEVEMENTS**

**2017** **CAT “B” HYDROGRAPHIC SURVEY COURSE**

Qualified Internationally Accredited Category B Course from PNS Bahadur, Karachi (5th Jun 17 – 22nd Dec 17)

**2015** **BASIC HYDROGRAPHY COURSE**

Qualified basic course in Hydrography from PNS Bahadur, Karachi (Jun15-Sep 15)

**2013 BRIDGE WATCH KEEPING CERTIFICATE**

Qualified bridge watch keeping exam from Pakistan Navy War Ship in 2013

**2009 B.Sc GEOLOGICAL ENGINEERING (2005-2009)**

University of Engineering and Technology (UET) Lahore, Pakistan, Secured A grade

**PROFESSIONAL EXPERIENCE**

**DEPUTY HYDROGRAPHER in PAKISTAN (Jul 2018 – Till to Date)**

IWTDC, Pakistan conducts Hydrographic surveys to maintain the river channel depth and operate transport and tourism ships in **Indus River**, Pakistan

* + Responsible for directing the transportation, setup, operation, and the maintenance of hydrographic equipment
* Conducted **Hydrographic** surveys in Indus River Pakistan
* Conducted rock blasting in the passage to achieve safe navigable depth
* Compiled 175 km long digital Navigation Channel
* Responsible for Planning and execution of survey projects and conducting project briefings, bathymetric data collection, editing, processing and production

of final Fair sheet and Survey report writing

**FIELD SURVEY OFFICER in Pakistan (Jan 2014 – Jun 2018)**

Survey Vessel Behr Paima is a dedicated ship in Pakistan Navy that Conducts Hydrographic and Oceanographic surveys in **National** waters of Pakistan

* Have a comprehensive expertise on use of Hydrographic Data acquisition/ processing software **“HYPACK”**
* Responsible for Supervising the entire hydrographic survey works, including administrative and logistics aspects, in co-operation with relevant departments
* Extensive experience of Bathymetric data collection through Single Beam Echo Sounder (SBES)
* Have theoretical knowledge of Multi Beam Echo Sounder (MBES)
* Responsible for supervising positioning and navigation activities
* Responsible for ensuring the integrity and quality of hydrographic data
* Identifying under water features using **Side Scan Sonar**
* Have a good knowledge of **Geo-technical** data obtained through Coring and Grab samplers for investigating bottom texture and sub surface geology
* Conducted **Oceanographic** research surveys using CTD/ UCTD instruments, Niskin bottles, Plankton nets and Secchi disc
* Utilized Oceanographic instruments for measuring **salinity**, conductivity and temperature of ocean
* Have knowledge of utilization of **Argo floats** data for incisive depiction/ assimilation of ocean underwater (UW) environment
* Limited Knowledge on working methodology of **Sub-bottom profiler**
* Thorough understanding of GPS **Positioning** techniques including DGPS, RTK
* Detailed experience of establishing **Geodetic** Control network
* In depth experience of **Trimble Business Centre** for processing and analyzing satellite and terrestrial survey data recorded in the field
* Good command on working methodology of Automatic **Tide Gauge**, Current Meter, Wave Tide Recorder, Motion/ Heave Sensor and Sound Velocity Probe
* Have a working experience of using modern **Land surveying** techniques including Total Station, Theodolite, digital and automatic leveling instruments
* Have a comprehensive understanding regarding **Volume** computations using bathymetric data
* Knowledge of **Geophysical** techniques employed for Subsurface investigations
* Have comprehensive knowledge of different types of soils encountered during

**Dredging Operations**

**EXECUTIVE BRANCH OFFICER (OPERATIONS) at Pakistan Navy War SHIP (Jul 2011 – Dec 2013)**

* Undergone professional Training Courses at PNS Bahadur, Pak Navy including Firefighting and JOSDC at PNS Karsaz
* Qualified Ship **Watch Keeping Exam** and carried out duties of Officer of the Watch(OOW) at multiple ships of Pakistan Navy

**GEOLOGICAL ENGINEER at AJK ENTERPRISES, ISLAMABAD (Apr 2010 - Jun 2011)**

AJK Enterprises is a Construction Company that **conducts drilling** for soil investigation and Bearing Capacity analysis

* Monitored/ Supervised **Geotechnical** Investigations through Rotary drilling & SPT/CPT Tests and compiled reports from their test results analysis
* Performed **Lab testing** on site collected bottom samples to classify the bottom samples
* Supervised the Project of foundation design of the **High Commission of** **Canada,** Islamabad

**GEOLOGICAL ENGINEER at NESPAK ISLAMABAD (Oct 2009 - Mar 2010)**

National Engineering Services Pakistan is a consultant **construction** company

* Carried out **Geological** Hazard Assessment in the field
* Prepared detailed reports and provided necessary **mitigation measures** if applicable

**SKILLS & FORTE**

**TECHNICAL SKILLS**

* HYPACK Software
* Ocean Data View Software
* Valeport Softwares(tide guage, SV, CTD, current meter)
* Tide prediction software
* Global mapper software
* Topcon software(land survey)
* Google Earth
* Trimble Business software
* GPS / Total Station Survey
* ERDAS IMAGINE
* Topographic Survey
* Rock and soil testing
* Geological Mappings

**TRAINING AND WORKSHOPS**

* Two weeks Geological Survey Camp (Kattas, Chakwal - 2009)
* Two weeks Topographic Survey Camp (Abbottabad - 2008)
* One week hands on training on ERDAS Imagine from SUPARCO
* Two days workshop on use of **Hypack** Software in Pakistan
* Two days workshop on Global water crisis and Pakistan

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|  | **COMPUTER SKILLS** |  |  |  |
|  |  MS Office | (Word, excel, power point, publisher and Visio) |  |
|  |  |  |  | Used in the preparation and presentation of |  |
|  |  |  |  | academic/professional data |  |
|  |  | Global Mapper | Good knowledge of converting Google Earth/ Jpeg images |  |
|  |  |  |  | to raster and vector format |  |
|  |  | Corel Draw | Limited work on designing of title page of reports |  |
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**PERSONAL DETAILS**

**Date of Birth:**

Apr, 16, 1987

**Nationality:**

Pakistani

**Languages:**

**Hobbies:**

English, Urdu

Cricket, Badminton, Volleyball, Travelling