

# Engr. Faizan Khan

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Flat # 02; Street Prince Muhammad bin Abdulaziz, Cross15/16, Khobar Shumalia, KSA

## PROFESSIONAL SUMMARY

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Dedicated Agricultural Engineer with 12 years of experience in optimizing farming processes and increasing agricultural productivity. Proficient in designing and implementing innovative solutions to address challenges in crop cultivation, irrigation, and soil management. Skilled in utilizing technology and data analysis tools to enhance agricultural efficiency and sustainability. Strong project management abilities with a proven track record of successfully leading multidisciplinary teams to achieve project objectives.

## WORK EXPERIENCE

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### Horticulturist

Apr 2017 – Jan 2024

ALL in ONE • Karachi, Pakistan

- Plan and oversee the cultivation and maintenance of plants, including flowers, trees, shrubs, and vegetables.
- Conduct soil analysis and implement appropriate fertilization and irrigation techniques.
- Monitor plant health and identify and address pests, diseases, and other issues.
- Design and implement landscape plans, including layout, plant selection, and installation.
- Coordinate with landscaping contractors and other professionals as needed.
- Maintain and operate horticultural equipment and machinery.
- Provide guidance and support to gardeners, landscapers, and other staff members.
- Keep abreast of industry developments, trends, and best practices in horticulture.
- Plan, organize, and oversee all activities related to hydroponic crop cultivation and aquaculture production.
- Manage greenhouse operations, including nutrient solution management, planting, harvesting, and crop rotation.
- Supervise the operation and maintenance of aquaculture systems, including fish tanks, filtration systems, and water quality monitoring.
- Implement and maintain hydroponic and aquaculture production schedules to ensure optimal yields and product quality.

### Landscape Engineer

Apr 2013 - Apr 2017

Ziauddin Hospital • Karachi, Pakistan

- Collaborate with clients, architects, and other stakeholders to understand project requirements and objectives.
- Develop landscape designs, including site plans, planting plans, and hardscape features.
- Conduct site surveys and analyze environmental factors such as soil, drainage, and sunlight.
- Select appropriate plant species and materials based on site conditions, climate, and client preferences.
- Monitor construction progress and address any issues or challenges that arise.
- Conduct post-project evaluations and provide recommendations for improvements.

## **Farm Manager**

Oct 2012 - Mar 2013

Ultimate Build Farm • Karachi, Pakistan

- Develop and implement farm plans and budgets to meet production goals and financial objectives.
- Plan and oversee crop cultivation activities, including planting, irrigation, fertilization, pest control, and harvesting.
- Supervise farm workers and contractors, providing leadership and guidance to ensure tasks are completed efficiently and safely.
- Keep accurate records of farm activities, including production data, inventory, and financial transactions.

## **Agriculture/Irrigation Engineer**

Jun 2011 - May 2012

Al-Reem Veterinary & Agriculture Center, Kingdom of Bahrain • Manama, Bahrain

- Assist in conducting routine inspections and maintenance of irrigation systems, including pipes, valves, pumps, and controllers.
- Assist in troubleshooting and diagnosing issues with irrigation equipment and components, such as leaks, clogs, and electrical malfunctions.
- Assist in conducting performance testing and optimization of irrigation systems to ensure efficient water distribution and resource utilization.
- Collaborate with senior engineers and field technicians to coordinate maintenance activities and prioritize repairs.
- Assist in the installation and commissioning of new irrigation systems, including pipe laying, valve assembly, and controller programming.

## **Agriculture/Irrigation Engineer**

Nov 2009 - May 2011

Ramada Plaza Hotel, Karachi • Karachi, Pakistan

- Supervise and coordinate the daily activities of the irrigation maintenance team, including assigning tasks, providing guidance, and ensuring adherence to schedules and quality standards.
- Conduct regular inspections of irrigation systems to assess their condition, identify maintenance needs, and prioritize repairs based on urgency and impact.
- Plan and schedule preventive maintenance tasks, such as cleaning, lubrication, and calibration of equipment, to prevent breakdowns and ensure optimal performance.
- Oversee the repair and replacement of irrigation system components, including pipes, valves, pumps, controllers, and sprinkler heads, as needed.

## **EDUCATION**

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### **Agriculture Engineering (B.E)**

Jan 2005 - Oct 2009

Sindh Agriculture University • Tandojam, Pakistan

## **SKILLS**

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Computer skills advanced knowledge of **MS Office**, proficiently used internet and software like **Real Landscape Architecture, Revit** and **AutoCAD**.