

# Noman Ahmed Shah

MCS, ITIL, PMP®

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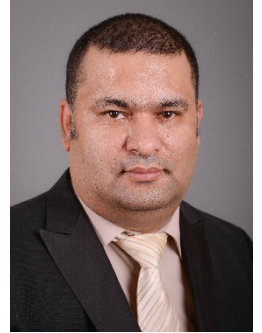
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## Introduction:

I am a highly motivated IT & Project Management expert & researcher with a Master in Computer Science degree, PMP & ITIL V3 certifications, several courses from international recognized universities, two (2) granted US patents and nineteen (19) pending inventions filed at USPTO, and over eighteen (18) years of experience in **Pakistan** and **Middle-East** at various management positions in public & private sector as well as academia. I have an aptitude for learning, inventing and innovating solutions & products. I can add value through my expertise and proven success in developing policies & strategies and SoPs, leading and mentoring teams, managing stakeholders, developing & delivering successful projects, enterprise systems and solutions.

## Keywords

*Internet of Things, Process Re-Engineering & Reforms, Project, programme and portfolio Management, Risk Management, Innovation management, MS Project, ERP, Data Aggregation, Reporting, Analysis, Dashboard, Business Intelligence, E-Governance, Contract Management, Research, Patents, Information Security, Internet of Things, Wireless Sensors Network, Key Performance Indicators, Progress Monitoring, PMIS, eHealth, Projects Monitoring & Evaluation System, GIS, Wireless Sensors Network, Embedded Systems*

## Professional Certifications

2013 **ITIL V3**, EXIN, ID# sr6242850

2009 **JNCIS-ER** Juniper

2008 **PMP** - Project Management Institute, PMP No. 524004 (Good Standing, renewed 3<sup>rd</sup> term 2015-18)

## Distinction:

**"Most Promising Startup of 2019"** status from among 93200 contestants from 120+ countries at Startup Istanbul 2018 competition.

**Award of Excellence** in recognition of outstanding contribution in the field of Science & Technology in 2014 by Consulate General of Pakistan and Pakistan Executive Group, Jeddah, Saudi Arabia

## Independent Projects:

- 2016: Smog & Air Pollutants Sensor Network (SANS)
- 2015: Hazard Tricorder (Senses 8 gases, radiation, air pollution, temperature & humidity).
- 2015: Hybrid Reality Remote Control System
- 2014: Medical Tricorder (Senses ECG, EEG, EMG, IR Temperature, Lungs Function, SPO2)
- 2014: World first ever and US patented "Smart Firearm Safety Device. (APS-1)
- 2013: Bomb Disposal Drone
- 2009: Anti-terrorism Surveillance Drone
- 2008: Stirling Power Generation System
- 2007: 4 in 1 thin client PC system
- 2002: Smart Urdu Font Utility
- 1998: Urdu Driving Theory Test

## Employment History & Experience

### CEO (December 2019 till date)

#### Director (September 2018 till December 2019)

Center for Research & Advancement of Frontier Technologies (CRAFT)

*Center for Research and Advancement of Frontier Technologies (SMC Private) Limited is an innovation centric startup developing emerging technologies and cutting edge solutions. Nominated as most promising startup at Startup Istanbul 2018 competition from among 93400 contestants. I have taken over the responsibility as CEO after sudden demise of lead inventor & Chairman of CRAFT.*

### Director MIS (July 2016 till December 2019)

Punjab Social Protection Authority, 72 Garden Block, Garden Town, Lahore, Pakistan

Website: [www.pspa.punjab.gop.pk](http://www.pspa.punjab.gop.pk)

#### **Responsibilities & Achievements:**

- **Managing MIS of Punjab Ehsaas programme (PSPA is focal agency for Ehsaas Programme initiatives in Punjab)**
- **Concept development & Design of Integrated Information Management System (IMIS) and Social Protection Registry (In collaboration with the World Bank) of more than 125 programmes and 14 Million beneficiaries across 24 provincial departments and 35 districts in Punjab.**
- **Envisioned first ever & largest Data Center & ERP for province-wide Social Protection system, Integrated MIS & SP Registry with help of the World Bank IDA grant of \$200M.**
- Envisioned, Designed and Developed Business Intelligence reports, dashboards and portal.
- Implemented innovative solutions for data collection, quality assurance and analysis.
- Developed Integrated MIS, Risk & Responsibility Framework.
- End to End 'Data Management' of various program's beneficiaries.
- Institutionalized and operationalized MIS wing at PSPA.
- Issuance of Khidmat Cards (branchless banking case transfer instrument) to 750,000 beneficiaries and disbursement of quarterly installments.
- Developed IT, Information Security & Email policies & guidelines.
- Designed & Developed official website of the organization.
- Designed and Developed M&E and Grievance Redressal Mechanism & Information System.
- Designed & Developed & Maintained organizational Website.

### Director PMO/MIS, July 6, 2012 to June 2016

Science & Technology Unit, Umm-ul-Qura University, Makkah, KSA

Website: <http://www.stu.sa>

#### **Responsibilities & Achievements:**

- Established & In charge of Genetics Research Lab, Intellectual Property Management, Fab-Lab Makkah, eHealth Projects and eHealth Labs, Innovation Landscape Report in Collaboration with M/s Thomson Reuters, Development of Innovative Medical Testing Kit in collaboration with University of Manchester and operational projects including breast cancer detection, mobile dental labs and maker space.
- **Established Three (3) Technology Innovation Centers funded by National Science Technology & Innovation Plan of the Kingdom.**
- Selection, Deployment, Customization & Management of Software & hardware including EPM (Development in Dot Net and integration with MS Share Point, MS Project Server, Business Intelligence Services and MS SQL Server) ERP (SSPS/Oracle), Institute's Web portal, Dashboards and reports (Microsoft Power Pivot, Power Query, Zoho Reports), Event Management System (Cvent) as well as envisioning & development of various applications.

- Development and implementation of policies, strategies, SoPs, guidelines, proposals, financial and management plans, monitoring and progress reports, dashboard and annual STU performance reports. Developed and maintained units website (www.stu.sa).
- Management of PMO with portfolio of over 102 Strategic Projects amounting SAR 200+ Million & 4 Operational Projects worth over SAR 206 Million.
- End to end monitoring & evaluation of research projects in fields related to IT, ICT, Information Security, Internet of Things, GIS as well as Medical Technologies amounting to SAR 300 M.
- Demand based trainings and workshops on MS Project, MS Power Pivot, Project Management, Turnitin plagiarism service, Task management system (Asana), Using BI apps as well as Event Management System, to research scientists, PMO staff and team members.

**Achievements:**

- Established PMO at Science & Technology Unit (STU-UQU).
- Designed policies, strategies, guidelines, SoPs, and workflows for STU, NSTIP, PMO & Institute of Consulting Research & Studies (ICRS).
- Designed & developed STU Management Information System that included Projects & Portfolio Management, Finance, Accounts, HR, Inventory & Procurement Modules and Reporting Suite. Managed implementation of an Oracle financials based ERP system and Cvent Event Management System.
- Designed & Developed Business Intelligence application using MS Excel, VBA, Power Pivot, Analyzer, Access, Zoho Creator & Reports.

**Director MIS (Federal Projects), May 7, 2010 till July 6, 2012**

Project Wing, Planning Commission, Government of Pakistan, Islamabad

Website: <http://www.pc.gov.pk>

**Responsibilities:**

- Monitoring of PSDP projects in Punjab Province (199 Projects FY 2011-2012 including Information Technology & ICT Infrastructure, Country wide Data Centre as well as infrastructure & social sector projects) with financial budget portfolio of PKR 2.1 trillion.
- Training of Project Managers on PMES (Projects Monitoring and Evaluation System), RBM (Result Based Monitoring), and Satellite Monitoring of Projects, Non-Destructive technologies for Infrastructure Projects Monitoring, Project Management methodologies & IT Project Management.
- Installation and running of PMES (Project Monitoring & Evaluation System) Software.

**Achievements:**

- Setup, directed & managed MIS Unit for Federal Projects in Punjab Province at Planning & Development Department, Punjab
- Developed Projects Monitoring and Evaluation System (PMES) for monitoring of all PSDP projects at national level and integrated in ministry portal.
- Monitored progress of E-Government projects including Federal Government Data Center at E-Government Directorate, Ministry of IT

**PMO Consultant, February 20, 2010 till May 14, 2010**

Premier Systems Private Limited, Islamabad/ Pakistan Air force, Air Headquarters, Islamabad

**Achievements:**

- Established PMO at Regional Office Islamabad
- Next Generation Network Installation, Configuration and Integration at 7 geographically distant locations all over the country for Pakistan Air Force.
- Establishment of PTCL Datacenters at Karachi & Lahore
- WiMax & Database Application for Mobilink
- Prepared project implementation plans, Responsibility acceptability metrics, project proposals and schedules.

**Director Technical, April 10, 2008 till May 14, 2010**

Dot Pak Private Limited / E-Governance & Internet

**Responsibilities:**

- Setup and consultancy of ccTLDs, gTLDs and ICANN/Internet Governance advisory

- Conducted Seminars, workshops and Management & IT related Trainings
- Management & Supervision of Telecom, Information Security, E-Governance & Renewable Energy projects.

### **Project Director, June 10, 2006 till April 10, 2008**

Electronic Government Directorate, Ministry of Information Technology, Government of Pakistan

Website: <http://www.e-government.gov.pk>

#### **Responsibilities:**

- Development of ERPs, Pakistan.gov.pk and e-government.gov.pk web portals and management of citizen online team, Infrastructure & E-services projects.
- Manage technical teams, vendors & stakeholders comprising of EGD technical specialists, vendor personal and end user organization representative
- Developed comprehensive strategic plan, objectives and KPI for all projects assigned by the directorate and insure that it is done on time. Prepared PC-I, II, III & IV documents, monthly and annual progress monitoring reports, cash and work plans as well as knowledge and practice of PPRA rules & regulations.
- Procurement of equipment, hardware, software, turnkey solutions, preparing comparative analysis, vendors assessment, bidding process as well as conducted due diligence.
- Ensure reliability, continuity and availability of systems & services, risk assessment & effective management.
- Facilitate and liaise with ITC for Database administration activities on LOCAL database servers (Oracle Server) and utilization monitoring and Capacity planning of databases.
- Manage software releases, patches, project and enhancement releases and ensure the changes are adherent to change management processes.
- Effectively manage escalations related to IT Operations, Application Support and Project Support activities.
- Managed automation projects & implemented ERP for the following Government Organizations:
  - Federal Investigation Agency (Automation of FIA & Border Management System)
  - Development of HMIS and automation of Polyclinic Hospital, Islamabad.
  - E-Justice (Automation of District Courts & Case Laws Management System)
  - Ministry of IT & Telecom (Creation of Awareness on e-Government)
  - Ministry of IT & Telecom (Urdu Lexicon, Machine Translation & Text to Speech Engine)

### **Programme Coordinator, August 2005 to June 2006**

IT Education and Communication Centre (Professional Training & Skill Development Institute)

#### **Responsibilities:**

Management of programme portfolio including:

- Demand Based Training for PMP, Primavera, IT, ICT and Management courses
- Punjab IT Exhibition (PITEX), Management Training Workshops & Seminars

### **Project Manager, January 2004 to August 2005**

ENMAC Engineering Limited, IT/Software/Embedded Systems - Research & Production

#### **Responsibilities:**

- Managed development of software based simulators, e-book/Digital Quran firmware and application software, encryption algorithms, urdu language fonts and editing application as well as company's website.
- Managed development & production of several defense related products with matching military standards and requirements including CCTV, **Battle Field Simulator software**, **Encrypted Communication Devices** and **CNC machines & routers**.

### **Manager MIS, March 2002 to January 2004**

Ejaz Group (Ejaz Spinning Mills Limited), Textile

#### **Responsibilities:**

- Managed procurement of hardware, networking equipment & services and software applications

- Automated business processes of 3 textile mills and a head office. Automation included accounts, audit, purchase, inventory, production & power generation.
- Developed executive decision support system.
- Procured, overhauled, installed and run 4.12 MW power generation unit comprising 2 caterpillar engines, Alfalaval refinery and ABB turbocharger.
- Developed power generation monitoring and costing system for the executive management.
- Additional responsibility as Secretary to Executive Director.

### **Software Developer, December 1998 to March 2002**

The Dawood Group (Dawood Hercules Chemicals Limited), Fertilizer

#### **Highlights:**

- Developed several applications using DB2/DB400 and Visual Basic 6.
- Team member of Y2K solution migration of several million lines of code.
- Prepared progress and achievement reports and presentation for IT Department

### **Teaching Experience**

Visiting Faculty Member for MS in Project Management, *COMSATS Institute of IT*, (August 2011 to May 2012)

Visiting Faculty Member for BSIT & MSIT, *University of Education*, (February 2009 to December 2010)

### **Academic Qualification**

2004 Masters in Computer Sciences, CGPA 3.01, Punjab University College of Information Technology, Lahore, Pakistan

1999 Graduation (BA), University of Punjab, Lahore, Pakistan

1994 Higher Secondary School Certificate (FSc.), Board of Intermediate & Secondary Education, Sargodha, Pakistan

### **Patents filed/Issued at United States Patent and Trademark Office:**

1. **Granted:** U.S. Patent No. 9,222,743 "Firearm Safety Device."
2. **Granted:** U.S. Patent No. 9,779,066 "Method and System for Converting Punycode Text to ASCII/Unicode Text."
3. **Published:** U.S. Patent Pending No. 14/645,629 "A Calligraphy Stylus."
4. **Published:** U.S. Patent Pending No. 14/645,749 "Real Time Information Retrieval of Quranic Citations."
5. **Published:** U.S. Patent Pending No. 14/718,176 "Method & System for Storing, Processing and Cooking Food."
6. **Published:** U.S. Patent Pending No. 14/718,137 "Modular Compact Communication and Computing Method and System."
7. **Published:** U.S. Patent Pending No. 14/718,272 "A Remote Controllable Semi-Automated method and System for Preparing Food."
8. U.S. Patent Pending No. 62/218,897 "Unmanned aerial vehicle for bomb disposal."
9. U.S. Patent Pending No. 62/281,747 "Apparatus and method for controlling sub-images in a multi-rotor aircraft visual display"
10. U.S. Patent Pending No. 62/281,748 "Apparatus and method for controlling a formation of multi-rotor aircraft to display an image"
11. U.S. Patent Pending No. 62/274,305 "System, method and device for detecting, trapping, and disposing of scorpions."
12. U.S. Patent Pending No. 62,292,233 "hybrid reality system, method and interface for internet of things "
13. U.S. Patent Pending No. 62,291,899 "systems, apparatuses, and methods for assisting and safeguarding travelers"
14. U.S. Patent Pending No. 62/244,969 "Device to device fluids transmission."
15. U.S. Patent Pending No. 62/171,845 "Real-Time Captioning Translation and Sign Language Embedding."
16. U.S. Patent Pending No. 62/214,538 "Public Address System for Real Time Emergency."
17. U.S. Patent Pending No. 62/173,209 "Certified Interpretation of the Holy Quran in Multilingual Visual Sign Languages."

18. U.S. Patent Pending No. 62/240,631 "A portable compact device & method for detection, analysis and storage and communication of vital signs of the patient/subject."
19. U.S. Patent Pending No. 62/212,228 "System & Method for Client's Data Objects Storage."
20. U.S. Patent Pending No. 62/278,750 "Four Pi Steradian Imagery."
21. U.S. Patent Pending No. 62/281,365 "cross-language linguistic variant system and method"

## Specialization & Courses

2020 [Specialization] **University of Toronto**: Self-Driving Cars Specialization

- Introduction to Self-Driving Cars
- State Estimation and Localization for Self-Driving Cars
- Visual Perception for Self-Driving Cars
- Motion Planning for Self-Driving Cars

2020 [Certification] **IBM Data Science Professional Cert. & Applied Data Science Specialization**

- What is Data Science?
- Open Source tools for Data Science
- Data Science Methodology
- Python for Data Science and AI
- Databases and SQL for Data Science
- Data Analysis with Python
- Data Visualization with Python
- Machine Learning with Python
- Applied Data Science Capstone

2015 [Specialization] **Entrepreneurship: Launching an Innovative Business**

The University of Maryland, USA

- Entrepreneurship Capstone
- New Venture Finance: Startup Funding for Entrepreneurs
- **Innovation for Entrepreneurs: From Idea to Marketplace**
- Developing Innovative Ideas for New Companies: The First Step in Entrepreneurship - **With Distinction**

2016 Story and Narrative Development for Video Games, California Institute of the Arts

2016 Introduction to Game Design, California Institute of the Arts

2014 Beyond Silicon Valley: Growing Entrepreneurship in Transitioning Economies - With Distinction, scored 94.3%, Case Western Reserve University, USA

2015 Programming Mobile Applications for Android Handheld Systems II, the University of Maryland, USA

2015 Programming Mobile Applications for Android Handheld Systems I, the University of Maryland, USA

2015 Internet of Things & Augmented Reality Emerging Technologies, scored 100%, the YONSEI UNIVERSITY, SOUTH KOREA

2015 **Design Thinking for Business Innovation**, scored 100%, Darden School of Business, University of Virginia, USA

2015 TechniCity, scored 100%, The Ohio State University, USA

2015 Geospatial Intelligence & the Geospatial Revolution, scored 89.2%, The Pennsylvania State University, USA

2014 **Revolutionary Ideas**: An Introduction to Legal and Political Philosophy- with Distinction scored 100%, University of Pennsylvania

2014 Usable Security - With Distinction, the University of Maryland, USA

2014 Risk and Opportunity: Managing Risk for Development - With Distinction, scored 87.3%, the World Bank

2007 Cyber Forensics Information Security Professional, Business Automation Consultants, LLC, USA

2007 IT Auditing & Controls, Business Automation Consultants, LLC, USA

2007 Project Management Professional, Aldion Consulting, USA

2007 Information Security Implementation & Management Certificate, ICIL Business Training, UK

2000 J2EE Professional, Edge Systems International, USA

## Skills & Competencies

- Strong leadership, business communication, team management, analytical and problem-solving skills.
- Experienced in strategic planning, system architecture, implementation and management of IT systems and enterprise resource planning systems, business processes re-engineering.
- Hands on experience in managing SLAs for the smooth and effective service delivery from outsourced processes.
- Experience of running & managing PMO and developing and implementing the IT related policies and procedures.
- Experienced in e-government/public sector projects planning/execution and management, PC-I, PC-II, PC-III, PC-IV documents, cash & work plans, progress reports, procurement documents and analysis, hiring of staff, PPRA rules, project proposals, feasibility studies and subsequently to develop the TORs, RFPs and RFQs.
- In-depth knowledge and experience in cost, time, risk and integration management.
- Experienced in IT & Research project's budget analysis, outsourcing strategies, and contract management.
- Proven ability to deliver high quality IT products and services on schedule and under budget.
- Experience in data aggregation, analysis, reporting and business intelligence dashboards.

### **Languages**

English: Expert

Urdu: Expert

Arabic: Basic (Listening, Reading)