

Dr. Tanveer Ahmed

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EDUCATION

- 2019 PhD in Composite Materials, Research title: “Damage modelling in fibre reinforced polymer composites with stress raising defects”
(National University of Science & Technology [NUST], Rawalpindi-Pakistan)
- 2002 MSc (Mechanical Engineering – CGPA 3.813 / 4.0 [**Gold Medalist**])
(National University of Science & Technology [NUST], Rawalpindi-Pakistan)
- 1991 BSc (Mechanical Engineering – 1st Division)
(University of Engineering & Technology, Lahore-Pakistan)
- 1987 BSc (Pre-Engineering)
(Pakistan Military Academy [PMA], Kakul-Pakistan)
- 1985 FSc (Pre-Engineering)
(Government Degree College, Shakargarh, Punjab-Pakistan)
- 1981 Matric (Science)
(Government High School, Shakargarh, Punjab-Pakistan)

PROFESSIONAL COURSES

- 2013 Off-Grid PV Systems – Training Workshop (**Renac Renewables Academy, Berlin, Germany**)
- 2004 Unit Command Course (UCC) – Administration, HR Management, Quality Control & Engineering Management (Electrical & Mechanical Engineering College [**EME College**], Rawalpindi-Pakistan)
- 1998 Proof and Experimental Officers Course (PEO) – Sentencing of Ammunition and Weapons (Inspectorates of Armaments)
- 1994 Mid-Career Course (MCC) - Administration, HR Management and Quality Assurance and Logistic Management (Electrical & Mechanical Engineering College [**EME College**], Rawalpindi-Pakistan)
- 1991 Young Officer Course – Administration, HR Management and Repair / Maintenance of Electronics, Electrical & Mechanical Equipment (Electrical & Mechanical Engineering College [**EME College**], Rawalpindi-Pakistan)

WORK EXPERIENCE

As Army Officer, **25 Years** versatile serving experience in **Pakistan Army** which includes various **Administrative, HR Management, Technical, Command & Staff** appointments

- Sep 2012 – Present **Assistant Professor in HITEC University Taxila**
Interest Areas: Composite Materials, Mechanics of Materials, Renewable Energy Resources, Energy Conservation / Management (Energy Audits), Manufacturing
Subjects Taught: Materials Science and Engineering, Advanced Materials Science and Engineering, Mechanics of Materials I, Mechanics of Materials II, Computer Aided Design Computer Aided Manufacturing (CAD / CAM), Renewable Energy Resources (Solar PV Energy, Solar Thermal Energy, Wind Energy, Biomass Energy, Hydel Energy, Tidal Energy, Geothermal Energy, Energy Conservation – Energy Audit)
Hosted: **Renewable Energy Show** on 10th Apr 2013 at HITEC University, Taxila
<http://www.energyshow.webs.com>

Installation and Commissioning of 60 KW Grid-Tied (Net Metering) PV System in HITEC University, Taxila

- Aug 2009 – Sep 2012** **Commander Electrical and Mechanical Engineer (Solar)**
Involved in Design Integration, Installation and Commissioning of Off-Grid Solar PV Systems, On-Grid PV Systems, Hybrid PV Systems, Solar Thermal Systems and Energy Management (Energy Audits)
- Mar 2006 – Aug 2009** **Assistant Director, EME Directorate, GHQ**
Establishment of Logistic Supply Chain Management of Vehicles Spares, Formulation of Inventory Management Policy, Formulation of Forecasting, Procurement, Provisioning and Issuance Policy
- May 2005 – Mar 2006** **Second-in-Command, EME Battalion**
Technical & Administrative Management of Workshop and adviser to CEME
- Jul 2002 – May 2005** **Officer Commanding, EME Workshop**
Technical, Administration & HR Management of Workshop and Advisor to Brigade Commander
- Oct 2000 – Jul 2002** **Student – MSc (Mechanical Engineering)**
- May 1998 – Oct 2000** **Inspector Grade-I – Inspectorate of Armaments**
Physical Testing of Metals & Steels and Proofing / Testing of Ammunition & Weapons
- Sep 1995 – May 1998** **Officer Commanding, EME Workshop**
Technical, Administration & HR Management of Workshop and Advisor to Brigade Commander
- Oct 1994 – Sep 1995** **Officer Commanding, EME Workshop**
Technical, Administration & HR Management of Workshop and Advisor to Brigade Commander
- Dec 1992 – Oct 1994** **Workshop Officer, EME Workshop**
Maintenance, Repair and Quality Control of vehicles & equipment of the Army
- Apr 1991 – Dec 1992** **Technical Adjutant / Adjutant, Electrical & Mechanical Engineering Battalion, EME**
Technical & Administrative Management of Workshop, Quality Control of Workshop production of vehicles & equipment and adviser on Technical matters to Commanding Officer
- Sep 1987 – Apr 1991** **Inspector Grade-II – Inspectorate of Armaments**
Physical Testing of Metals & Steel and Proofing / Testing of Ammunition & Weapons
- Oct 1985 – Sep 1987** **Pakistan Military Academy**

TECHNICAL SKILLS

Design Integration and Installation of Off-Grid & On-Grid PV Systems, Hybrid PV Systems, Energy Conservation (Energy Audits)
Formulation of Logistic Supply Chain Management of Vehicles Spares
Formulation of Inventory Management Policies and Formulation of Forecasting, Procurement, Provisioning and Issuance Policies, etc
Management of HR, Workshop Procedures & Quality Control of Equipment of Field Workshops
Maintenance & Repair of Tanks, APC, Guns, Arms, Electronics / Electrical equipment
Maintenance & Repair of all kinds of Vehicles & Equipment's
Management, Planning & Quality Control in Engineering Production
Management & Planning of HR for Employment on Different Projects

MISC PROJECTS

Installation and Commissioning of 60 KW On-Grid PV Systems
Energy Conservation - Energy Audits
Design Integration, Installation and Commissioning Hybrid PV Energy Systems
Design Integration, Installation and Commissioning of Off-Grid PV Systems
Design and Construction of Village Comprising Hundred Houses and schools
Design and Fabrication of Pop-Pop Targets for Shooters
Design and Fabrication of Electro-Mechanical Gates
Design and Fabrication of Central Air Conditioning of Auditorium
Design and Fabrication of Security Posts and Barriers
Design and Fabrication of Powder Coating Plant for Metal Parts
Design and Fabrication of Electro-Mechanical Barriers
Design and Fabrication of Test Benches for Vehicles' Major and Minor Assemblies

PUBLICATIONS

Effect of machining parameters on surface quality and delamination of carbon/glass/epoxy hybrid composite material during end milling operation

Journal: "Journal of Mechanical Science and Technology"

A study on finite element of pre damaged stress concentration factor for a composite laminate member with central circular hole

Journal: "Journal of Mechanical Science and Technology"

Numerical Modelling of Carbon Fibre Reinforced Polymer Composites for Hole Size Effect

Journal: "NUST Journal of Engineering Science"

COMPUTER LITERACY

Abaqus Software
Ansys Software
Fluent Software
ABS Software
Filmora 9 Editing Software
Matlab
Pro-E
Auto CAD
Presentations (Microsoft PowerPoint)
Computer Applications (Microsoft Word, Excel, Outlook)
Operating Systems (Windows)
Email, Web Surfing & Internet Correspondence

COMPETENCIES

Ability to work independently or with a multidisciplinary team environment
Sound problem solving and abilities with approach to finding solutions
Positive approach to things
Possess ability to establish and maintain excellent public relations
Ability to inspire, motivate and coordinate people
Dedicate learner with an ability to adjust very well to new situations
Capability to work under pressure

PERSONAL INFORMATION

Father's Name	Muhammad Siddique
Religion	Islam
Marital Status	Married
Date of Birth	February 1966
C. N. I .C	34502-3005469-5
Nationality	Pakistani

Interests	Books Reading, Hiking, Travelling, Indoor & Outdoor Games, Computer etc
Languages	ENGLISH, URDU & PUNJABI

REFERNCE AVAILABLE UPON REQUEST
