

## **CURRICULUM VITAE**

**SABA FAKHAR**

**C-12 NED Staff Colony- NEDUET**

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## **CAREER STATEMENT**

A self-motivated and committed Teacher in prestigious educational institution, having thirteen years of teaching experience A devoted teacher with strong academic background having multi-tasking skills and organizational / administrative expertise

## **EXPERIENCE**

- Lecturer, Department of Electronic Engineering, NED University of Engineering & Technology, Karachi, Pakistan from April 2010 to date.
- Lab-coordinator, Department of Electronic Engineering, NED University of Engineering & Technology, Karachi, Pakistan.
- Member, implementation team (OBE-EL).
- Lab Incharge, Basic Electronics Laboratory, NED University of Engineering & Technology, Karachi, Pakistan from April 2011 to date.
- Incharge SENTEC (Society for the promotion of Science, Engineering & Technology- SENTEC), NED-UET from July 2010 to 2012.
- Lecturer, Department of Electronic Engineering, Usman Institute of Technology, Karachi, Pakistan, from March 2006 to March 2010.
- Lecturer( visiting faculty), Department of Electrical Engineering, NED University of Engineering & Technology, Karachi, Pakistan, from July 2005 to December 2005.
- Assistant Engineer at Logitrac from October 2005 to November 2005.

## **ACADEMIC QUALIFICATION**

- Master of Engineering\_\_2007 to 2009  
Electrical (specialization in Communication)

NED University of Engineering & Technology, Karachi, Pakistan.

- Bachelor of Engineering 2001 to 2004 Electrical

NED University of Engineering & Technology, Karachi, Pakistan.

### **COURSES TAUGHT**

- Electromagnetic Fields
- Power Electronics
- Analog Integrated Circuits
- Electrical Machines
- Basic Electronics
- Electronics I
- Electronics II
- Network Analysis
- Basic Electrical Engineering
- Electronic Devices and Circuits
- Digital Integrated Circuit(Labs)
- Digital Electronics
- VLSI System Design (Labs)

### **TRAININGS/COURSES/SEMINARS/WORKSHOP**

- Three days workshop on mentograph, August 2010,NED-UET.
- Two day workshop on Machine Vision, August 2010, NED-UET.
- Seminar on guidance of Robots and Fuzzy logic, 2010, NED-UET.
- Workshop on HEC digital Library, 2010, NED-UET.
- Two day training on Research Orientation, 2010, NED-UET.
- Two day Training on Role of Teacher as Examiner and Invigilator, September 2010, NED-UET.
- Three days training on Effective teaching practices, 2011, NED-UET.
- Attended and supervised team for participation in National Engineering Robotics Competition 2011 as Incharge SENTEC,NUST- Islamabad, Pakistan
- Attended two days workshop on internal QMS Auditor training by Quality Management Cell, December 2011,NED-UET.

- As incharge-SENTEC organized an all Pakistan Project Exhibition and Quiz competition at NED-UET July 2011.
- Attended seminar on practical education on photonics, Jan 2012, at NED-UET
- As faculty incharge organized SPEC (Student project exhibition and competition-2014) at NED-UET
- Supervised undergraduate projects, titled, remote monitoring and data acquisition system, wireless eyebot, data acquisition system for nuclear gamma spectroscopy at nuclear instrumentation lab of KINPOE.
- Attended five day training on Outcome Based Education (OBE), 2017.
- Attended two day training on “Resource Sharing and optimization”, 2018.
- Attended a talk on “organic electronic and Photonic devices”, 2017.
- Attended a conference organized by Electronic/telecommunication department, NED-UET, 2018.
- Participated as project evaluator in HUPEC-2018 organized by Hamdard University, December 2018.
- Supervised and assessed various semester projects.

### **RESEARCH INTEREST**

- Energy efficient data monitoring and acquisition system
- Renewable energy sources and smart grid operation

### **PUBLICATION**

- Design and development of low cost data embedded acquisition and control system in virtual instrumentation, International Journal of Scientific and Engineering Research-IJSER, July 2013

### **TEACHING AND ADMINISTRATIVE DUTIES**

- Conducting lectures to undergraduate students by means of demonstration, practical, discussion and tutorials.
- Preparing teaching materials and revising laboratory manuals for the progress of students
- Utilizing the skills and qualities by handing over assignments to students

- Assigning, assisting and assessing student project work
- As faculty incharge, supervised various teams for participation in various project exhibition in engineering universities and institutions.
- Actively participated in Syllabus revision of electronic courses at undergrad level.
- Performing other duties entrusted by higher authorities

## **SKILLS**

- Proficient in MS Office
- Circuit simulation in NI Multisim, OrCAD
- Programming in C , Verilog
- Layout designing using Microwind
- Verilog Simulator ( Modelsim), Quartus

## **MEMBERSHIP**

- Pakistan Engineering Council (Registration number: Elect-22046)