

CURRICULUM VITAE

Personal Data



Fatima Muhammad Saleem

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📅 Date of birth 06/08/1990 | 🇵🇰 Nationality Pakistani

Professional Experience and Training

- 12/2016 – to date **Lecturer at NED University of Engineering and Technology**
- Taught Electronic Devices and Circuits, Digital Electronics & Electronic Engineering Design and Workshop
 - Conducted labs for Power Electronics, Basic Electronics, Programming Language, Electronic Devices and Circuits and Digital Electronics
- 06/2016 – 11/2016 **Research Work at MaxPlank Institute for Dynamics of Complex Technical Systems (Germany)**
- Research on dynamics of the system, specifically Multiple Steady States of the process
 - Analysis and Comparison of different Reactive Distillation control strategies such as Self Optimizing Control method and Heuristic methods
- 04/2014 – 07/2014 **Scientific Research Assistant for Institute for Automation and Kommunikation, Magdeburg**
- 12/2014 – 04/2015
- Design of Device Adapter Interface
 - Communication of PLC client & Server using SCALA Modbus
 - Modelling of the parts of Virtual Power Plant on SimulationX using MODELICA
 - Testing of parts using PyFMI and S7-1200 PLC Modbus communication
- 01/2013 – 06/2013 **Trainee Network Engineer in Rangoonwala Group Of Companies, Karachi (Pakistan)**
- Understanding of Infrastructure and Functionality of Operational units
 - Installing & configuring computer systems & Logging customer queries
 - Diagnosing and solving hardware/software faults
- 12/2011 – 01/2012 **Internee in ELECTRONICS Dept. of Civil Aviation Authority, Karachi (Pakistan)**
- Navigational aids, guidance and Target identification
 - Voice recording system, Radar system and Test equipment of CAA
 - VHF and UHF frequency signals
 - Aeronautical message handling system
 - Responsibilities of control tower, equipment & area control centre
- 12/2010 – 01/2011 **Internee in United Mobile Company, Karachi (Pakistan)**
- Client support and Receiving management
 - Work Assistance at Hand To Hand Lab and Main lab
 - Key responsibility of Quality and Control Department

Education

- 10/2013 - 04/2016 **MSc. Electrical Engineering and IT** GPA: **4.0** (Passed with Distinction)
Majors: Power, Control and Automation
Otto Von Guericke University Magdeburg, Germany
- 01/2009 - 12/2012 **B.E. Telecommunications** GPA: **3.7** (Passed with Distinction)
NED University of Engineering and Technology Karachi, Pakistan
- 10/2008 - 03/2009 **Diploma in Office Management** GPA: **3.0**
Skill Development Council Karachi, Pakistan

Title of Dissertation

Master Thesis	Self-Optimization Control of a Ternary Reactive Distillation Column with Inert using MATLAB and Simulink
Bachelor Thesis	Design and Analysis of a vector processing, the digital MTI receiver for pulsed radar using MATLAB and ADS which allows to detect the moving as well as stationary targets along with their range, velocity and sense of motion

Professional Certification

03/2016	Course on "Introduction to Power Electronics" University of Colorado Boulder
05/2015	Certificate course "Programming for Everybody in Python" Michigan University
07/2011	Certificate course "Android" Company of Designs and Solutions
06/2010	Course on "Microcontroller" Institute of Skill Development Council, Karachi
02/2010	Course on "Lab View" NED University of Engineering and Technology

Skills

Personal Skills:	Ability to collaborate with others and have good team building skills Ability to attend to detail and work in a time-conscious and time-effective manner Ability to compile high level incident reports for management & HSE legal obligations Critical thinking/reasoning ability Excellent presentation skills, Travelling and Relocation possible
Software Skills:	Expert skills at using Microsoft Office, Siemens TIA PORTAL, ITI SimulationX, MATLAB, Simulink, Lab View and LTspice Intermediate skills at using SABER SKETCH, CISCO PACKET TRACER, ADS, Multisim
Programming Skills:	C-Language, Assembly Language, Modelica, PLC Programming, JAVA, XML, SCALA and Python
Language Skills:	Urdu (Native Speaker), English (fluent), German (intermediate)

Projects

- Investigation of main Algorithms & Concepts to achieve Static Reduction of Power Networks and recommendation of their implementation and optimum utilization, Institute of Power Systems (LENA), OVGU
- Modelling and Simulation of High Purity Binary Distillation Column on MATLAB and Simulink, Institute of Automation (IFAT), OVGU
- VOIP network configuration using Cisco Packet Tracer, NED University

Professional Membership

- Member of Institute of Electrical & Electronics Engineers, Membership No.: 93693519
- Enlisted as Registered Engineer with Pakistan Engineering Council, Registration No.: TELECOM/4401
- Member of International Association of Engineers, Membership No.: 162742

Extras

- International Scholarship holder during Graduate studies at Otto-von-Guericke University, Germany
- Admin of Facebook pages and member of RIA Buddy Program and IKUS for helping students in Germany