CURRICULUM VITAE

Personal Data



Fatima Muhammad Saleem

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- engineerfatima2012@gmail.com , fatimamuhammad@cloud.neduet.edu.pk Date of birth 06/08/1990 | Nationality Pakistani

Professional Experience

12/2016 – to date	 Lecturer at NED University of Engineering and Technolog Taught Digital Signal Processing, Signals and Syste Electronic Devices and Circuits, Programming Lan and Control, Engg. Economics & Management & 	ems, Power Electronics, Basic Electronics, nguage, Digital Electronics, Instrumentation
06/2016 – 11/2016	 Research Work at Max Planck Institute for Dynamics of C Research on dynamics of the system, specifically Analysis and Comparison of different Reactive Dis Optimizing Control method and Heuristic method 	Multiple Steady States of the process stillation control strategies such as Self
04/2014 – 07/2014 12/2014 – 04/2015	 Scientific Research Assistant for Institute for Automation and Kommunication, Magdeburg 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 Python FMI 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 Auth Navigational aids, guidance and Target identificat Voice recording system, Radar system and Test e VHF and UHF frequency signals Aeronautical message handling system Responsibilities of control tower, equipment & an 	tion quipment of CAA
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 Ia Key responsibility of Quality and Control Department 	
Education		
10/2013 - 06/2016	MSc. Electrical Engineering and IT Majors: Power, Control and Automation Otto Von Guericke University Magdeburg, Germany	GPA: 1.3 (Passed with Distinction) Being 1.0 the highest
01/2009 - 12/2012	B.E. Electrical Engineering and Computer Science Majors: Telecommunication NED University of Engineering and Technology Karach	GPA: 3.7 (Passed with Distinction) i, Pakistan
10/2008 - 03/2009	Diploma in Office Management	GPA: 3.3

Skill Development Council Karachi, Pakistan

Title of Dissertation

Master Thesis	Selection of Self Optimization Control Structure for 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"	
05/2015	University of Colorado Boulder Certificate course "Programming for Everybody in Python" Michigan University Certificate course "Android" Company of Designs and Solutions	
07/2011		
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 and HSE legal obligations Critical thinking/reasoning ability Excellent presentation skills, Travelling and Relocation possible	
Software Skills:	Expert skills at using Microsoft Office, Windows OS, 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
- Supervised as an internal and external at least 25 projects during my 7 years period in NED

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 Social media pages for helping students of Pakistan to study in Germany