

M. Awais

Electrical Engineer

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Education

2016–Present **Ms Power System and Automation**, North China Electric Power University, China, .

Thesis: **Consensus Based Distributed Optimization for Energy Management of Active Distribution Network**

2012–2016 **BE Electrical Engineering**, Abasyn University Islamabad Campus, .

Professional Experience

JULY 2016 – **Internship, Avionic Production Factory (APF)**, Kamra, Pakistan.

Aug 2016

- Worked in overhauling hanger of JF-17 Thunder
- Surveyed PCB production unit
- JF-17 simulator and Radar Unit
- Technical report writing for the team head

sep 2015 – **Lab Engineer, Abasyn University**, Islamabad.

Aug 2016

- Taught Analogue communication techniques
- Communication system modeling on Simulink Matlab
- Hardware implementation on Software defined Radio Kit(SDR kit)

BE Project

Title **Event Based Quality Selective High Efficiency Coding**

Supervisor Waqas Ahmad

Description In the proposed project video stream is processed on computer and recording decision is taken when motion is detected. To make the video recording quality adaptive VLC free source latest H.265 encoder is adopted. The core idea of the project is to setup a motion aware recording mechanism for DVRs (Digital Video Recorder) and NVRs (Network Video Recorder). Which in turn will save the memory space.

North China Electric Power University

- Operation and Control Technology of Power System
- Electric Network Analysis Theory
- High Voltage DC(HVDC)

- Electrical Equipment Online Monitoring and Fault Diagnosis
- Power System Analysis and Control
- Power Generation
- Power Electronics

PUBLICATIONS

- 1- M J. Abbas, **M.Awais**, A U. Haq. "**Comparative Analysis of wideband communication techniques: Chirp Spread Spectrum and Direct Sequence Spread Spectrum**", International Conference on Computing, Mathematics and Engineering Technologies (iCoMET), March 3,4,2018. .
- 2- Faisal Mehmood Shah, Han Min Xiao(Member IEEE), Rui Li, **Muhammad Awais**, Guangyang Zhou, Girmaw Teshager Bitew. "**Comparative Performance Evaluation of Temperature Dependent Characteristics and Power Converter using GaN, SiC and Si Power Devices**" IEEE 12th International Conference on Compatibility, Power Electronics, and Power Engineering (IEEE CPE-POWERENG) DOHA-QATAR April 10th-12th, 2018. .
- 3- Waqas Ahmad Mirza, Muhammad Jamshed Abbas, **Muhammad Awais** , Muhammad Sadiq Orakzai "**A Real-Time Control Using Wireless Network for Smart Energy Management and Billing System**", International Journal of Information Technology and Electrical Engineering, May. 2018. .
- 4- Muhammad Jamshed Abbas, **Muhammad Awais**, Waqas Ahmad Mirza, Jibran Hashim , Sohail Abbas , Arsalan Hameed" **Power and Coverage Based Performance Analysis for Femtocells Network**", International Journal of Information Technology and Electrical Engineering, May. 2018.

Computer skills

Software	Latex, Multi-sim, Ms Office
Languages	C/C++. MATLAB, ladder Logic, Assembly x86 (Intel)
Hardware	zybo board, SDR-Kit, DSP-Kit

Activities

- Gold Medal for First Position in the BE Electrical Engineering, batch of 2012-2016, Abasyn University Islamabad.
- CSC Scholarship for MS studies in China,2016.
- Member IEEE society during bachelors
- Football and Basketball

Languages

- English
- Urdu
- Punjabi

- Chinese (basic)

References

- Waqas Ahmad
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Reference Type: Assistant Lecturer, Abasyn University Islamabad Campus,
Islamabad Pakistan