

DR. HAFIZ ABDUR RAHMAN [HZR]

Professor

Ph.D

from

from

University

Purdue

of

MSECE

BSEEE from CUET, Chittagong, Bangladesh

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Office hours:

Monday,

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Biography

British

University,

1:30

Columbia,

West

PM

Vancouver,

Lafayette, –

2:30

Canada

USA

PM

Dr. Hafiz Abdur Rahman has more than thirty years of experience in teaching and research. Before joining NSU, Dr. Rahman had taught at UBC, Purdue University, and the Islamic University of Technology. His expertise includes modeling and simulating data communication and electrical power systems networks; embedded control and monitoring systems; parallel and distributed computing; security and reliability of Internet-enabled systems; data processing and decision support systems. Dr. Rahman is presently leading a research group for a GoB-funded project (EPRC) to develop technologies for improving the stability and Cybersecurity of Bangladesh's National Power Grid. An important part of this work is to build Phasor Measurement Devices (PMU) and a Cyber-Physical System (CPS) Testbed for the Power Grid Company of Bangladesh (PGCB).

In the past, he had pioneering work on critical infrastructures that forms the basis for understanding "Cyber Interdependency" as we know it today. As an engineer, Dr. Rahman had been one of the important team members for some of the very prestigious engineering projects, which include: the security and emergency preparedness simulation of the 2010 Winter Olympics (2009-2010) that was held in Vancouver, development of critical infrastructures' simulation system (I2Sim) for the Government of Canada (2005-2008) and had designed and commissioned computer networks for the Prime Minister's Office and the Planning Commission of the Government of Bangladesh (1995-1997). He had been a member of the executive committee of the IEEE P2030.4 (Smart Grid) standardization working group (2013-2018) and was the chair of the Safety-related committee of the WG.

Dr. Rahman is a registered professional engineer in Canada, a senior member of IEEE, and a fellow of the Institution of Engineers, Bangladesh. He received his BSEE degree in 1988 from Chittagong University of Engineering and Technology (CUET), Bangladesh.

Research Areas

- Power Systems and Renewable Energy
- Embedded Systems and Internet of Things (IoT)
- Modeling and Simulation
- Data Networking and Information Security

Teaching

- EEE 362 Power Systems

- ETE 331 Data Communications & Networks
- EEE 221 Signals and Systems
- ETE 505 Advanced Computer Networks and Communications
- ETE 536 Network Security
- EEE 520 Stochastic Signals and Systems