

# WALID AL MISBA

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## EDUCATION:

**Doctor of Philosophy** August 2018- present  
**Virginia Commonwealth University, Richmond, VA**

**Master of Science** (Electrical Engineering) January 2016- May 2018  
**Tuskegee University, Tuskegee, AL**  
**GPA:** 4.0/4.0

**Thesis:** Multi-Objective Voltage/Frequency Control for Power Systems Using Modified Game and Model Predictive Control  
**Advisor:** Dr. Gregory V. Murphy, Professor, Dept. of Electrical Engineering

**Bachelor of Science** (Electrical and Electronic Engineering) January 2008- February 2013  
**Bangladesh University of Engineering and Technology, Bangladesh**  
**GPA:** 3.50/4.0

**Thesis:** Early Breast Cancer Detection with Ultra-Wide Band Microwave  
**Advisor:** Dr. Pran Kanai Saha, Professor, Dept. of Electrical and Electronic Engineering, BUET

## PUBLICATIONS:

### CONFERENCE PAPERS:

- **Walid Al Misba**, Mandoye Ndoye, Md Arifin Arif, Gregory V. Murphy, “Multi-objective Optimal Reactive Power Dispatch using Modified Game Theory”, *2017 North American Power Symposium (NAPS)*, Morgantown, WV, USA, 2017, pp. 1-6.

### PRESENTATIONS:

- **Walid Al Misba**, Gregory V. Murphy, “Multi-objective optimal reactive power dispatch using modified game theory”, Presented (oral) at Center for Ultra-wide area Resilient Energy Transmission and Networks (CURENT) Industry Conference, Knoxville, TN (November 2017).
- **Walid Al Misba**, Gregory V. Murphy, “Multi-objective optimal reactive power dispatch using modified game theory”, Presented (poster) at CURENT NSF/DOE Annual Site Visit, Knoxville, TN (November 2017).
- **Walid Al Misba**, Gregory V. Murphy, “Reactive Power Management considering multiple objectives for IEEE New England 39 bus system”, Presented Large Scale Testbed (LTB) demonstration at CURENT NSF/DOE Annual Site Visit Team Lab Tour, Knoxville, TN (November 2017).
- **Walid Al Misba**, Mandoye Ndoye, Md Arifin Arif, Gregory V. Murphy, “Multi-objective Optimal Reactive Power Dispatch using Modified Game Theory”, Presented (oral) at 49<sup>th</sup> North American Power Symposium (NAPS), Morgantown, WV (September 2017).

## **TECHNICAL SKILLS:**

Programming Language : C, C++, 8086 Assembly Language, Verilog  
Numerical Analysis : MATLAB, Python  
Electrical Circuit Simulation : Orcad Pspice, Proteus  
Power system Simulation : PowerWorld  
Drawing Software and Packages : AUTOCAD, Microsoft VISIO

## **EMPLOYMENT HISTORY:**

- **Teaching Assistant**, Virginia Commonwealth University, Richmond, VA August 2018-present  
**Responsibilities:**
  - Grading and instructing in Process and System Dynamics and Signal and Systems II course.
  
- **Graduate Research Assistant**, Tuskegee University, Tuskegee, AL January 2016-April 2018  
**Responsibilities**  
*Project:* Engineering Research Center (ERC), affiliate of Center for Ultra-wide area Resilient Energy Transmission and Networks (CURENT)
  - Planning, proposing, formulating, designing and developing new ideas along with performing simulation in Laboratory.
  - Developed and Implemented multiple objectives energy management system.
  
- **Teaching Assistant**, Tuskegee University, Tuskegee, AL January 2016- April 2018  
**Responsibilities:**
  - Grading and instructing in Control System Lab and Electronic Circuit-I Lab
  
- **Engineer**, AKSML, Chittagong, Bangladesh May 2013- Dec. 2015  
**Responsibilities:**
  - Installing, commissioning and maintaining electrical equipments in 256 Ton per day Oxygen plant.