

## **Patrick Dolan**

### **Objective**

To obtain an engineering position with a dynamic and growing company where I can use my analytical and computer skills to solve advanced engineering challenges.

### **Work Experience**

#### **Transmission Planning Engineer**

12/2007 - PRESENT CONFIDENTIAL

- Built power flow models for the analysis of wind farm interconnection into the transmission system.
- Prepared and conduct long range studies for utilities.
- Developed software for internal company use. Using PSS/E, Python, MUST, OASIS, Siemens EMS, VBA, VB6, IPLAN, C, C++, JavaScript, HTML and XML.

#### **Engineer**

5/2007 – ATC, LLC Waukesha, WI

- Built power flow for underground transmission line studies for the Madison Area.
- Prepared and conduct long range reliability studies and prepare published report for the Upper Wisconsin Area.
- Developed software for internal company use. Using PSS/E, Python, MUST, OASIS, Siemens EMS, VBA, VB6, IPLAN, C, C++, JavaScript, HTML and XML.

#### **Engineer**

3/2004 – 5/2007 PJM, Norristown, PA

- Built power flow models and conduct daily, weekly, and monthly transfer studies to determine Available Transfer Capability (ATC) for commercial use in transmission open access market.
- Monitor and analyze bulk power system security, including response to emergency conditions, and line loading relief with members and adjacent systems.
- Prepared and conduct long range reliability studies and prepare published report.
- Interfaced with member systems, adjacent regions, the North American Electric Reliability Council (NERC) and various governmental agencies to develop criteria for the PJM electric system.
- Built displays for PJM dispatchers for monitoring the PJM electrical system.
- Developed software for internal company use. Using PSS/E, Python, MUST, OASIS, Siemens EMS, VBA, VB6, IPLAN, C, C++, JavaScript, HTML and XML.

#### **Engineer**

9/2002 - 11/2003 Exelon Corp, Chicago, IL

- Prepared system plans for future electrical work in the Distribution Planning division.
- Provided training and analysis on PSS/e with the specific concentration in the Com Ed area.
- Handled the analysis and development of the thermal capabilities of the distribution system.

#### **General Engineer**

8/2001 - 9/2002 MAIN, INC., Lombard, IL

- Built power flow models and conduct daily, weekly, and monthly transfer studies to determine Available Transfer Capability (ATC) for commercial use in transmission open access market.
- Monitored and analyze bulk power system security, including response to emergency conditions, and line loading relief with MAIN members and adjacent systems.
- Prepared and conduct long range reliability studies and prepare published report.
- Interfaced with member systems, adjacent regions, the North American Electric Reliability Council (NERC) and various governmental agencies and developed criteria for the MAIN electrical system.

### **Education**

#### **Master of Business Administration**

8/2006 American InterContinental University, Hoffman Estates, IL

Concentration: Project Management

**Bachelor in Electrical Engineering w/ Computer Science**  
5/2001 Marquette University, Milwaukee, WI  
Concentration: Electrical Engineering