Brian M. Henke

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601 Main St. SE, Apt. 422
Minneapolis, MN 55414

(U.S. Citizen – Secret Level Security Clearance)

OBJECTIVE: Obtain a full time job in electrical engineering as a power systems engineer.

EDUCATION:

Master of Science, Electrical Engineering (MSEE) ***Expected*** **May 2011** — **University of Minnesota**
G.P.A. 3.36/4.0 — **Minneapolis, MN**
Fellowships: 21st Century Gary Glover Fellowship, John Martin Walifora Fellowship, and Zeese Fellowship
Current Appointment: Graduate Research Assistant with Center for Electric Energy
Advisor: Bruce F. Wollenberg, PhD

Bachelor of Electrical Engineering (BEE) May 2009 — **University of Minnesota**
G.P.A. 3.78/4.0 — **Minneapolis, MN**
With Distinction
Scholarships: Roger M. Nordby, Wendall A. Johnson, Chauncy L. Green, and Hackborn Scholarships

Study Abroad:
- Alternative Energy Production Methods in Scandinavia (Iceland, Denmark, and Norway), May-June 2007
- Engineering and Research in Taiwan and Hong Kong, May-June 2008

SKILLS:

Operating Systems: Windows, Linux/Unix
Languages: C/C++, Verilog, Assembly, Interested in exploring other languages
Software: Microsoft Office/Access/Visio, MATLAB, LabView, PSPICE, AutoCAD
Test Equipment: O-scope, Freq Gen, Peak Power Meter, Frequency Counter, DMM, Spectrum Analyzer
Interpersonal Skills: Excellent communication skills (written and verbal), team player, self-motivated, optimistic
Relevant Coursework: Emphasis on Power Systems and Controls, Solar Decathlon, Power Systems Protection, Wind Energy Essentials

RELATED EXPERIENCE:

Graduate Research Assistant — **U of M Center for Electric Energy, Minneapolis, MN**
(August 2010 – Present)
- Research focuses on production cost models and solving optimal power flow models using linear programming
- Advised by Bruce Wollenberg, in collaboration with Minnesota Power

Graduate Teaching Assistant — **U of M Electrical Engineering Department, Minneapolis, MN**
(September – December 2009)
- Responsibilities included: Preparing overview for undergraduate laboratory experiments; supporting, troubleshooting; and explaining student experimental circuits, grading lab notebooks, reports, and quizzes

Engineering Intern — **Goodrich Sensor Systems, Burnsville, MN**
(June – August 2006)
- Worked with Project Management Operations for the Configuration Management Group
- Managed multiple work streams, organized and archived data files, and upgraded multiple databases

OTHER EXPERIENCE:

Cyberspace Officer – EI Engineer — **Minnesota Air National Guard, St. Paul, MN**
(May 2004 – Present) — **210th Engineering and Installation Squadron**
- Secret level security clearance, investigation dated July 2004
- Commissioned Air Force officer with military leadership experience
- Primary responsibility is to engineer communication installation packages for systems-level C4I communication equipment at military airfields worldwide – projects average from $500,000 - $1 million in materiel cost
- Lead team of 4 project engineers; experienced in military briefing, preparing inspection reports and nominations
- 210th Engineering and Installation Squadron's 2007 Airman of the Year

ACTIVITIES:

Professional Activities/Organizations:
- 2009 U of M Solar Decathlon Team: 5th Place Overall, 1st Place in Engineering Contest
  Photovoltaic Team Leader for electrical engineering team - included independent study experience under a faculty advisor and working directly with industry professionals and Department of Energy officials
- Active member of Eta Kappa Nu (HKN), July 2007 – Present
- Student member of the IEEE, July 2006 – Present
- Member of Minnesota National Guard Enlisted Association, February 2006 – Present