

**SANDRA GOODALL**

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**OBJECTIVE** A position applying operations research and economic skills to analyze and solve manufacturing problems.

**EDUCATION** **Cornell University**, College of Engineering, Ithaca, NY  
School of Operations Research and Industrial Engineering  
Candidate for Bachelor of Science Degree, May 2008 GPA 3.26

**HONORS/ AWARDS** Dean's List • National Action Council for Minorities in Engineering (NACME) Scholarship • Texas Instruments Scholarship • Cornell Engineering Minority Programs Award for Academic Excellence • Mellon/Ford Research Grant • Carl R. Gilbert Memorial Scholarship

**RELEVANT COURSES** Optimization • Engineering Probability and Statistics • Engineering Stochastic Processes • Industrial Systems Analysis • Design of Effective Manufacturing Systems • Design and Analysis of Simulated Systems • Computer Science (SCHEME and Pascal) • International Economics • Economic Analysis of Engineering Systems • Financial and Management Accounting

**RESEARCH EXPERIENCE** **Summer Research Student** Summer 2007  
*Princeton University*, Princeton, NJ  
Department of Civil Engineering and Operations Research  
• Used linear programs to model set-covering problems commonly found in the freight trucking industry  
• Developed AMPL model for dispatching problem

**WORK EXPERIENCE** **Staff Technologist** Summer 2006  
*Bell Communications Research (Bellcore)*, Red Bank, NJ  
Broadband Data Operations Technology District  
• Analyzed Inter-Switching System Interface (ISSI) to determine causes and effects of packet routing errors  
• Established requirements for implementation of emergency manual routing override procedures

**Quality Control Intern** Summer 2005  
*Texas Instruments, Inc.*, Dallas, TX  
Defense Systems and Electronics Group  
• Assisted in implementation of Statistical Process Control (SPC)  
• Developed control charts for temperature variations  
• Collected and analyzed test procedure data  
• Designed several Access macros to aid automation of recording data  
• Formatted and distributed data entry forms

**COMPUTER SKILLS** Knowledge of PowerPoint, Microsoft Word, Microsoft Excel, Access

**ACTIVITIES/ INTERESTS** National Society of Black Engineers, Secretary (2007-2008) • Society of Women Engineers, Company Information Sessions Coordinator (2004-2005), Corporate Chairperson (2006-2007) • Student Advisory Board, Cornell Entrepreneurs • Travel • Theater • Foreign Cultures