Tony Price

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RESEARCH INTERESTS

Nonlinear modeling and integration of barium strontium titanate (BST) thin film varactors into nonlinear transmission lines (NLTL)

PROFESSIONAL AND EDUCATIONAL OBJECTIVE

To obtain a Ph.D. in Electrical Engineering and gain industrial experience with emphasis in RF

EDUCATION

Ph.D. in Electrical Engineering University of South Florida (Tampa, FL) Fall 2006-Present
Expected Graduation Date: Spring 2009
GPA: 3.6

M.S. in Electrical Engineering University of South Florida (Tampa, FL) Fall 2004-May 2006
GPA: 3.55

B.S. in Electrical Engineering Clark Atlanta University (Atlanta, GA) Fall 1999-May 2004
GPA: 3.44

RELATED COURSEWORK

Random Processes, Mobile and Personal Communications, Advanced Topics in Wireless Communications Digital Signal Processing I, Integrated Digital Signal Processing Laboratory, Neural Networks and Mathematics for Communications, Complex Analysis, RF/MW Circuits I & II, Antenna Theory, Wireless and Microwave Laboratory, RF Measurements Laboratory, Numerical Techniques in Electromagnetics, Electromagnetics, Integrated Circuit Processing

HONORS AND AWARDS

National Science Foundation (NSF) Graduate Research Fellowship Award, Spring 2006
NSF Graduate Research Fellowship Honorable Mention, Spring 2005
NSF Bridge to the Doctorate Fellow, University of South Florida, Fall 2004-Spring 2006
National Society of Black Engineers Fellows Scholarship Recipient, Spring 2004
Beta Kappa Chi Scientific Honor Society, Spring 2003
National Collegiate Engineering and All American Scholars Award, Spring 2002
Dean's List, Spring 2000 – Spring 2004
Office of Naval Research - Program for Research Integration and Support for the Matriculation to the Doctorate (PRISM-D) Full Academic Scholarship, Fall 1999 – Spring 2004

RESEARCH EXPERIENCE

Research Assistant, University of South Florida, November 2006 – Present
Modeling BST thin film varactors for applications of nonlinear transmission lines, phase shifters, etc.
Advisors: Thomas Weller, Ph.D.; Kenneth Buckle, Ph.D.

Research Assistant, University of South Florida, August 2004 – June 2005
Built essential knowledge and performed simulations of ultra-wideband receivers that operate using a transmitter reference scheme. Poster Presentation: "Energy Detector Based Ultra-wideband Transceiver Design", WAMI Conference Spring 2005, Clearwater, Florida; Advisor: Huseyin Arslan Ph.D.

Research Assistant, University of Maryland College Park, June 2003 – August 2003
Created a MATLAB program that calculated the capacity of wireless channels by applying various power control schemes and probability distribution functions. Poster Presentation: "Wireless Communication Over Fading Channels", Advisor: Prakash Narayan Ph.D.

Research Assistant, Clark Atlanta University, September 2002 – January 2004
Developed simulations on wireless communications systems, smart antennas, internet security and supercomputers. Advisor: Musa Danjaji Ph.D.

Research Assistant, Clark Atlanta University, September 2000 – March 2001
Conducted experiments on biodegradable glucose sensors in conjunction with Cornell University. Advisor: Sunnie Aburime Ph.D.

Research Assistant, Cornell University, June 2000 – August 2000
Constructed an artificial collagen membrane by spinning collagen onto a silicon wafer and performed examinations using an atomic force microscope (AFM) with intentions of replacing damaged skin tissue. Poster Presentation: "Fabrication of an Artificial Collagen Membrane", Advisor: Mark Spencer Ph.D.

PROFESSIONAL EXPERIENCE

Internship, The Aerospace Corporation, Antenna Systems Department; El Segundo, CA
June 2006 – August 2006; Conducted near-field and far-field measurements to determine the gain of an ETS Lindgren horn antenna using Nearfield Systems Incorporated (NSI) 2000 and MATLAB software

Internship, General Electric Transportation Systems, Locomotive Engineering; Erie, Pennsylvania,
June 2004 – August 2004; Designed automatic sand health algorithm to detect when sand deposition system is functional for future testing on Tier II Evolution Series Locomotive

Internship, General Motors Flint Metal Fabricating Center; Flint, Michigan, May 2001 – August 2001,
Supervised up to 25 employees in the Engine Cradle Department, assigned daily tasks, and monitored gauges

COMPUTER SKILLS

MATLAB, Advanced Design System, Electronic Workbench, PSPICE, NSI 2000

LEADERSHIP AND ORGANIZATION AFFILIATIONS

Historian, Commissioned in Destiny (Campus Ministry, USF) September 2006-present
Tutor, **Clark Atlanta University** Engineering Department, September 2003 – May 2004
Mentor, Intel Computer Clubhouse, Atlanta, Georgia, January 2003 – October 2003
Academic Excellence Chair, National Society of Black Engineers (CAU), March 2003 – May 2004
Member, National Society of Black Engineers (NSBE), Fall 2001- present
Member, Institute of Electrical and Electronics Engineers (IEEE), Fall 2005-present

COMMUNITY SERVICE

Tutor at First Baptist Church of College Hill (2005-present), Wheelchair Basketball at Shriners Hospital (2004), Walk for Epilepsy (2004), Salvation Army yard work (2004), Flag Football Coordinator for GE interns (2004), University Homes Community Development Project (2003)