

# **Benjamin B. Bacon**

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## **OBJECTIVE:**

Research and design.

## **ACADEMIC PREPARATION:**

**M. A. in Education**, School of Education, University of Phoenix, 2004

Concentrations: Adult Education, Distance Learning

Capstone: *Advancing Technology Usage Through E-Education*

Advisor: Dr. Joann Kroll Wheeler

**B.S. in Computer Science Technology; B.S. in Electronics Engineering Technology**, Savannah State University, Savannah, GA, 1992

Concentrations: Computer Programming, Computational Analysis, Research in Computers, Electronics and related fields

**Thomas J. Watson Fellowship Year**, London, England, 1982-1983

Morley College, Courses in Astronomy, Music Composition, French,

Some French and Art at another school in London

**B.A. in Music**, Fisk University, Nashville, TN, 1979

Concentrations: Tenor Saxophone, Performance, Jazz, Composition, Music Education

Instructor: Roby George

## **RESEARCH SKILLS:**

- Utilized statistical programs extensively
- Wrote, utilized, and analyzed computer simulations in research
- Designed experiments for chemistry research
- Set up instruments for chemistry and physics experiments
- Designed laboratory apparatus for research in chemistry and physics
- Performed calibration of parameters for semiconductor simulator
- Nuclear research for fusion reactors
- Atomic absorption spectroscopy measurement and data collection
- Practical laboratory experiment, measurement, and data collection
- Design and coding of simulators for propulsion system analysis
- Tests and measurement of electronic systems designed for power management

## **LANGUAGES:**

- Fluent in English
- Can read and speak some French and Spanish

## **PROFESSIONAL EXPERIENCE:**

### **Owner of PLANE SPACE DESIGN, 1993-present**

Savannah Georgia

- Performing design related services and technical support services for business and residential clients. Managing daily business operations

### **Trainer, November 1995-January 1996**

Johnson's Income Tax and Business Services, Savannah, Georgia

- Designed and implemented computer seminars for working adult students.  
Course: Computer Awareness for Buyers

### **Instructor, Fall Quarter, 1994**

Pathways to Teaching Program, Armstrong Atlantic State University, Savannah, GA

Course: Mathematics for Teachers

### **Tutor, Winter/Spring 1992**

Math and Computer Lab, Savannah State University, Savannah, GA

Courses:

College Algebra, Analytic Geometry, Calculus, Computer Programming

### **Research Assistant, Summer 1991**

Intern, AT&T Summer Research Program, Murray Hill, New Jersey

- Assisted John Graebner in research on Thermal Diffusivity in Diamond
- Calibrated the laser pulse experiment and measurement apparatus
- Set up IEEE 488 data collection system with computer
- Collected and analyzed data

**Research Assistant, Fall 1990**

Science and Engineering Research Semester, LANL

- Assisted Kurt Sickafus in radiation induced conductivity research
- Modeled and simulated nuclear bombardment of alumina

**Research Assistant, Summer 1990**

Intern, AT&T Bell Labs Summer Research Program, Holmdel, New Jersey

- Assisted Vance Archer with Calibration of Parameters in the BICEPS simulator
- Simulation of integrated circuit manufacture processes
- Designed and wrote computer programs in UNIX based environment

**Research Assistant, 1989-1990**

Department of Chemistry, Savannah State University

- Assisted Dr. Manchery P. Menon et al. in coal fly ash amended composts research
- Plant growth, sample preparation, and spectral analysis of chemical compositions
- Presented research paper at Georgia Academy of Science

**PUBLICATIONS:**

Bacon, B.B. (2002), *Point/Counterpoint: Bluetooth starting to cut its teeth*. **Frontline Solutions**, 3(2), 38-40.

Bacon, B. (2001), *Reader Tips, Maximizing Your Web Searches: Handling E-Mail Overload*. **iSensors**, 2(1), 4.

Bacon, B. as S. K. Tutamen, (1994), *The Solution to Olber's Paradox*. **Internet**, No longer available.

Bacon B. as S. K. Tutamen (1994). *Design for the Future: Gravity Wave Communications*. **Internet**, No longer available.

Bacon, B., Chandra, K., Ghuman, G. S., James, J., Menon, M. P., Sajwan, K. S. (01/1993), *Fractionation and transport of nutrients among coal ash residues and in soil covered with fly ash-amended organic compost*. **Water and Soil Pollution**,

Bacon, B., Banholzer, W., Graebner, J. E., Jin, S., Kammiot, G. W., Seibles, L., (07/1992), *Anisotropic thermal conductivity in chemical vapor deposition diamond* **Journal of Applied Physics**.

### **UNPUBLISHED WORKS:**

Bacon B. as Seb-nut Kamuas Tutamen (1984) *Matter-Space and Motion: A Space-Time Physics*. Excerpted on the Internet at <http://www.planespacedesign.com/Hometown/excerpt1.htm>

Bacon B. as S.K. Tutamen (1993) *Theoretical Foundations of Inertial Mass Acceleration*.

### **PROPOSALS SUBMITTED:**

- *High Temperature Superconducting Compounds Research: Project High-T*, 1990
- *Modeling for Sensor Based Microfabrication Process Control*, 1993
- *A Sensor and Control-Based Intelligent Microfabrication Process*, 1993
- *Computer Tools for Complex Microfabrication Systems Design*, 1993
- *Minimum Egress Crew Apparel*, 1994
- *A Small, Motorless, Solar HVAC System for Low Energy Buildings*, 1999
- *The Computer Component Compatibility Database: Eliminating Part Selection Uncertainty Using a Middleware Tool*, 2000
- *Improved Thermoelectric Module Performance Through Enclosure in Effective Material Stacks*, 2012
- *Power Integration Solution for Combining Different Renewable Energy Sources*, 2012
- *Inertial Propulsion Systems for Spacecraft*, 2014

### **PAPERS PRESENTED AT CONFERENCES:**

B. B. Bacon, M. P. Menon, G. S. Ghuman, J. James, D. C. Adriano, K. Chandra, *Optimization of Treatment Parameters for the Use of Fly Ash Amended Composts for Plant Growth*. Presented at the Meeting of the Georgia Academy of Science, Macon, GA, 1990

### **CURRENT RESEARCH INTERESTS:**

Design of magnetic propulsion system concepts using ferrofluids

Highly secure computer system architectures

Data compression and transmission

### **GRANTS RECEIVED:**

### **PROFESSIONAL MEMBERSHIPS:**

Institute of Electrical and Electronics Engineers: Systems Man and Cybernetics Society, Computer Society, Magnetics Society

AIAA

**PROFESSIONAL SERVICE:**

- IEEE Women in Engineering Society, 2003-present

**HONORS AND AWARDS:**

4-yr Academic Scholarship, Honors Program Inductee, Harrison H. Cain Award, Music Departmental Honors, Magna Cum Laude, Thomas J. Watson Fellowship; Fisk University, 1975-1979.

Who's Who Among Students in American Universities and Colleges, Sarah Mills Hodge Scholarship, National Dean's List, Inducted into Tau Alpha Pi National Honor Society, Summa Cum Laude; Savannah State University, 1988-1992.

GTE Minority Graduate Fellowship, General Motors Fellowship, MIT Endowed Fellowship; Massachusetts Institute of Technology, 1992-1993.

Who's Who in America, 1993.

**REFERENCES:**

Letters of Reference File is available upon request from:

The following persons have written letters of recommendation on my behalf:

Dr. Evelyn Dandy  
Department of Education  
Armstrong Atlantic State University  
11935 Abercorn Street  
Savannah, Georgia 31419  
(912)-921-5536

Mrs. Bertha Pinkney  
Retired Teacher/Educator  
1010 W. 42<sup>nd</sup> Street  
Savannah, Georgia 31401  
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