

Brief Resume of:

Paul A. Blythe Sr.

9 Clifton Avenue
Binghamton, NY 13905
(607) 427-2242
pblythesr@stny.rr.com

OBJECTIVE

To obtain a Scientific or Technical position focusing on Advanced Technology Development/Transfer in Electronics Manufacturing, Systems Engineering, Control Systems, and other applied research and technology development environments.

EDUCATION

Ph.D. Systems Science May 2005
Binghamton University – Watson School of Engineering
Dissertation: "*Biometric Authentication System for Secure Digital Cameras*"
Committee Chairperson: Dr. Jessica Fridrich, Electrical Engineering Department

M.S. Systems Science (Emphasis on Manufacturing Systems) May 2002
Binghamton University – Watson School of Engineering

RELEVANT RESEARCH AND EMPLOYMENT EXPERIENCE

ELECTRICAL & PROCESS ENGINEER, CORNING Inc., Corning New York,

- Main responsibility is transfer of automated ceramic manufacturing technology to other countries.
- Coordinate the ordering, building, testing, and installation/commissioning of specialized manufacturing and testing equipment used in highly sophisticated automated manufacturing lines.
- Specialty skills include implementation of Allen Bradley RS 5000 hardware and software, WIT Optical recognition Software, Frame grabber cards, lasers, Robotic Systems, Ceramic Saws, Laser Maskers and Ceramic Plugger machines, High pressure fog systems, Optical recognition inspection equipment, batch mix facilities, developing thermal profiles for periodic kilns and roller hearths, and Laser gauges.

RESEARCH ASSISTANT, LAB MANAGER, & ADJUNCT PROFESSOR (EE), Binghamton University,

- Taught Electrical Circuits and Labs for Electrical Engineering Department, Summer 2006 Session.
- Manage the Digital Data Embedding Lab for the Electrical and Computer Engineering Department, Project: "*New Generation Methods for Digital Security: Steganography, Steganalysis, and Authentication Watermarks*", funded by the US Air Force Research Laboratory (AFRL) in Rome, NY

TEACHING ASSISTANT, Binghamton University, 1999-2002

- Managed a staff of 25 proctors for the Watson School of Engineering Microcomputer Lab.

- Developed class lectures and supervised their related hands on labs for the ISE370 - Industrial Automation course, on subjects such as: Electronic Components Packaging, SMT Screen Printing, Component Testing and Placement, Reflow Ovens, Robotics, Machine Vision, LabVIEW and ProE software.

INDUSTRIAL EXPERIENCE

MANUFACTURING ENGINEER, U.S. Assemblies Inc. Hallstead, PA, 1996-1999

- Designed complete computer integrated PC board manufacturing processes to meet ICP-A -610B standards in an ISO 9002 environment, and supervised their successful implementation, from the initial customer design meeting to final shipment.
- Total responsibility for product yield and efficiency performance of SMT, Thru-Hole, Hand Assembly, Wave Solder, Reflow Ovens, and Final Test departments.
- Assisted customer design engineers on procedures for improving electrical designs and electrical component selection to optimize their automated manufacturing ability.

PRODUCTION & MAINTENANCE MANAGER, EMS Technologies Inc. - Binghamton, NY, 1995-1996

- Supervision of all aspects of contract electronics manufacturing using automated IMC processes for Thru-Hole and SMT automated assembly equipment.
- Total responsibility for Inventory control, hand assembly, the operation, programming, and maintenance of automated printed circuit board machines, final test procedures, and employee training.

HIGHLIGHTS OF QUALIFICATIONS

- Senior Research Scientist and Electrical Process Engineer at Corning Corporation.
- Managing a Digital Data Embedding Research Laboratory at Binghamton University.
- Adjunct Professor in Electrical Engineering at Binghamton University.
- Manufacturing Engineer for a world class ISO 9002 certified contract manufacturer.
- Production & Maintenance Manager for a electronics manufacturing corporation.
- Systems Engineer for a multiprocessor computer systems manufacturer.
- Electrical Systems Engineer for Universal Instruments Corporation.
- Technical Instructor for Singer – Link.
- International Engineering Manager, for GAF Corporation.
- Electronics Technician, as a Sergeant in the United States Air Force.
- Strong background in designing automated PC board assembly systems for the electronics packaging industry.
- Strong background in design of analog and digital circuits.
- Strong Technical Writing skills in engineering documentation and proposals.
- Excellent public speaking and communication skills, self-motivated team player.
- Strong background in optics, and electro-optical circuit design.
- Strong background in digital signal processing.
- Strong background in Digital Security: Steganography, Steganalysis, and Authentication Watermarks.

AWARDS

- Digital Forensic Research Workshop (DFRWS) 2004 - Plenary Speaker Award.