

MAURICE(Moe) S. WHEATLEY, JR.
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EXPERIENCE

MEDEX MEDICAL, Duluth, Georgia
Part Time Contract Electrical Engineer
July 2002 - Jan 2003

- Developed Ethernet to RS232 firmware to interface multiple infusion pumps using Coldfire processor.
- Created small Irda to RS232 buffering firmware on MSP430 processor.
- Evaluation of various software tools.

T/R SYSTEMS, INC. Norcross, Georgia
Senior Electrical Engineer
November 1991 - June 2002

- Developed firmware to interface various high speed laser printers using 8051, 80188, and PowerPC based processor platforms.
- Created positioning firmware for a laser printer mechanism using DC servos and stepper motor controllers.
- Designed mechanical performance measuring techniques and hardware/software measuring equipment to analyze vibration, position, and velocity stability issues.

COLOROCS CORPORATION, Norcross, Georgia
Senior Electrical Engineer
March 1984 - September 1991

- Developed real-time control firmware for servo motors used to accurately position a light lens scanner and various image receptor belts for proper color imaging and registration.
- Created overall machine control and user interface firmware on a color printer product based on the copier print engine using a 64180 and 8097 processor.

STRATEGIC TECHNOLOGIES, Norcross, Georgia
Electrical Engineer
November 1983 - February 1984

- Designed a gas-plasma display interface board and a printer controller board for use in a 80186 based transportable computer.

PRINTACOLOR CORPORATION, Norcross Georgia
Electrical Engineer
January 1982 - November 1983

- Designed high performance digital controller board for a color ink-jet printer mechanism.
- Developed firmware for a second color ink-jet printer product using 6502, 8041, and 8085 processors.

MOTOROLA, INC., Ft. Lauderdale, Florida
Electrical Engineer
November 1979 - January 1982

- Designed automated test systems as well as analyzed pager system design issues in the areas of power consumption, signal acquisition, and data recovery schemes.

PROGRAMMING

- C, C++, and micro assembler languages including 8051, x86, and PIC processors.
- Various IDE's for different Microcontrollers.
- Microsoft Visual Studio C++ Windows Programming.
- VHDL programming.

EDUCATION

M.S.E.E. University of Illinois, Urbana IL 1980
B.S.E.E. University of Illinois, Urbana IL 1979

PUBLICATIONS

M.S. Thesis - "Design of a Digitally Tuned, Frequency Synthesized FM Tuner"
Electronic Design Magazine, 10/28/82 - "Color Graphics Printer"
Digital Design Magazine, 12/82 - "Ink-Jet Modules Meet OEM Demands"

CERTIFICATION

Engineer-in-Training (EIT), State of Illinois, 1979

PATENTS

US Patent #4,847,660 - "Method and Apparatus For Registration Control in an Electrophotographic Print Engine" 7/11/89

NON-PROFESSIONAL INTERESTS

Developing amateur radio communications programs and experimenting with DSP techniques using a PC. (<http://www.qsl.net/ae4jy>)