Nathan Brown

nathan@sputnickonline.com

700 Sylvan Dr. · Longview, TX 75602

(903) 918-4566

OBJECTIVE

Seeking a career in the field of electrical or software engineering. Have interest in real-time embedded system design. Have experience with analog/digital circuit board design, programming, and systems integration.

EDUCATION

degree

LeTourneau University, Longview, TX (www.letu.edu)
B.S. Engineering (Electrical), ABET Accredited, May 2004
Minors in Computer Science and Mathematics
3.59 GPA, *with Honors*

key courses

Microcontrollers, optics, electromagnetic fields, communications engineering, mechatronics, computer networks, computer graphics, software systems, manufacturing processes lab (machine shop/welding), and statistical quality control.

senior project

SAE Formula Race Car Design Project
Member of 35-person team that designed Formula One style race car for international competition sponsored by SAE. Leader of 5-person sub-group that designed and fabricated the electronics. Designed a real-time data acquisition system and dashboard.

WORK EXPERIENCE

Research Assistant, University of Texas at Arlington *Summer 2003*
Energy Systems Research Center
Worked with professor to design motor-generator set controls in NSF funded research program. Designed and built circuit board for custom LabVIEW signal conditioning.

Controls Designer, Brian Brown Engineering *Summer 2002*
Wrote control programs and designed wiring diagrams for HVAC systems.

Database and Web Programmer, J-W Operating Company *Summer 2001*
Helped administer and program MFG/PRO supply chain management system. Administrated HP-UX and Windows NT Servers and performed maintenance.

SKILLS PROFILE

Quick learner, strong organizational skills, and detail oriented.

c*ontrols*

Professionally designed HVAC control systems using Alerton PLCs. Have programmed Microchip microcontrollers and Motorola and Intel microprocessors. Have designed and implemented a motor speed control with feedback.

real-time systems

Have experience with real-time embedded software and hardware-software interfaces. Ported a RTOS (µC/OS-II) to new processor architecture (Microchip PIC 18).

software

AutoCAD, Mechanical Desktop, MathCAD, Maple, LabVIEW, MATLAB and Simulink, Multisim, Candace OrCAD Capture, Layout, and PSPICE analog circuit modeling, and CircuitMaker.

programming

Assembly, Turbo C, embedded C, MS Visual C++ 6, including extensive MFC and Windows API use, C#, .NET framework, Progress 4GL, PHP, and ASP VBScript.

INTERESTS

Reading, model airplanes/helicopters, amateur radio, AWANA club leader.