

# Ryan D. Bates

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202 Elliot Court • Columbia, TN 38401 • Cell: (615) 477-5914 • Home: (931) 388-9370  
Email: batesrd@mail.lipscomb.edu

**OBJECTIVE** To obtain a challenging and fulfilling position in the field of Computer engineering and implement the expertise and experience gained in my recent studies and work experience. I aspire to learn, grow, advance, and be an effective leader in the field of computer engineering.

**SKILLS AND EXPERIENCE** **Digital Logic Design / Altera VHDL** – Responsible for heavy modifications to a MIPS processor design through the development of pipelining, hazard detection, performance enhancements, and additional op codes through the use of VHDL, a hardware description language.

**Microcontroller Implementation** – Developed using C, Assembly Language, and Fuzzy Logic. Designed and built an autonomous maze navigating robot using a Motorola microcontroller.

**Programming in C / C++** – Object Oriented Design (OOD), Object Oriented Programming (OOP), used in Windows environment, Microcontrollers, and embedded applications.

**Electric and Electronic Circuits** – Two years of education in electric circuits and electronic circuits including small signal analysis, electronics workbench analysis, and matrices analysis.

**Networking** – Programmed packet handling and analysis routines in C / C++ for use in a verbal announcement network device as part of a team oriented project. Performed extensive Wireshark packet and protocol analysis of network traffic. Exercised network design methods.

**Team Design** of an **OBD II Diagnostic Tool** – Communication Interface Design, Programming for Signal and Communication Handler, Code Retrieval, Display, Casing Design, and Button Design.

**Documentation** – Created detailed technical documentation of designs and changes.

**Conflict Resolution** – Negotiation, Mediation, Tennessee Rule 31 Certificate (court ordered mediation), and Business Settings to improve teamwork and reduce working environment conflict.

**Business Strategy** – Finance, Accounting, Strategic Analysis, Management, Leadership, and Service Operations that aid in organizational communication and assessment responsibilities.

**WORK EXPERIENCE** **Lipscomb Computer Center**, Lipscomb University • Nashville, TN • ( 2004, 2006-2009 ):  
**IT Technician / Network Analyst** – Provided faculty, staff, and student network and software support via phone, email, or in person to effectively isolate and eliminate device or system issues.

**Information Systems Department**, Maury Regional Medical Center • Columbia, TN • ( 2004 ):  
**Intern** – Provided direct assistance on work orders for computer replacement, installation, upgrades, network access, computer system trouble shooting, and network trouble shooting. Performed data and application backup (via Norton Ghost), as well as hardware replacement or removal for protection of sensitive and confidential information.

**EDUCATION** **MBA** – Masters of Business Administration, Conflict Resolution concentration and Conflict Resolution Certificate - Lipscomb University, Nashville, TN - 2009

**BS** – Computer Engineering, minor in Pure Math and Computer Science - Lipscomb University, Nashville, TN - 2008

**HONORS & ACTIVITIES** · National Honor Society 2002 - 2003 · National Science Olympiad Medal 1999  
· Sigma Pi Beta Service Club 2003 - 2004 · Academic Scholarship

**Volunteer & Service Work** Healing Hands International - Church of Christ Disaster Relief - Painted a local Halfway House  
Restoration work for a local public middle school - Delivered Thanksgiving food to needy families  
Second Harvest Food Bank (collection) - Maury, North Carolina mission trip

