

## Leo N. Bize

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**Objective:** Full time position in the field of computer science with emphasis on both hardware and software

**Education:** **B. S. Computer Science, May 2005** **GPA 3.33/4.0**  
Rose-Hulman Institute of Technology, Terre Haute, IN

### Summary: **Computers**

- C, Visual/Turbo C++, Maple, Matlab, Glut, OpenGL, Ada, BASIC, LISP, CadKey, AutoCAD, Pro/Engineer, and LogicWorks
- Wrote programs now in use at Inland Steel Bar Company for metallurgical calculations

### Robotics

- Custom circuit board fabrication, computer interfacing, 8052 single board computers
- Robotic gantry cranes, remote exploration vehicles, all home-built
- Voice and screen menu driven control, robot control program APIs
- 2-D ultrasonic area mapping and robotic vehicle locaiton through wireless data links
- 3-D computer simulation/virtual reality with a Nintendo Power Glove

**Experience:** **CYBO Robots, Indianapolis, IN** **Software Development Intern** Summer, 2004

- Researched, designed, and implemented a new robot move database which was "generic, expandable, and flexible"
- Used MAPLE for circular interpolation, representation, and translation prototyping
- Code currently being used in new controller to be shipped to Caterpillar October 1999

**Software Testing Intern** Summer, 2003

- Designed, executed, and documented a testing scheme for a robotic welding platform
- Wrote robotic control code, debugged electrical/electronic systems
- Test results are now begin used to upgrade and further develop current systems

**Field Robotics Center, Carnegie-Mellon University, Pittsburgh, PA**  
**REU Intern** Summer, 2002

- Assisted in the development of a prototype robot, Houdini
- Developed and tested the mechanical systems and hydraulic assemblies

**Honors:** Kauffman Foundation Entrepreneurial Internship Program, Summers 2002 & 2003  
International Science & Engineering Fair: four years participation, 2nd place senior year in high school  
Keystone Science/Engineering Fair: four years participation, 1st place physical division senior year  
First Place, American Society of Computing Machinery Programming Contest