

JAMES JEFFERSON JARVIS

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Education

- **Iowa State University**—Ames, IA
Computer Engineering Major
 - Projected Graduation Date: December, 2005
- **Winona State University**—Winona, MN
Computer Science Major
 - 2001-2002

Skills

- Embedded design and electronics development with Microchip PIC, PowerPC, SPICE
- Java, C, PHP, VHDL, Assembly, HTML, \LaTeX
- Environmental sensors and monitoring
- Operating systems theory and practice with Linux, Unix, Irix, Solaris, Windows
- Practical wireless communications
- Database design and operation
- Large interactive websites
- GIS and online mapping
- 3D CAD/CAM using Solidwork

Selected Awards

- IEEE President's Scholarship, 2002 Intel International Science and Engineering Fair, May 2002, for work entitled *Automatic Packet Reporting System: Building a Large Scale Geospatial Database*
- Second Grand Prize, Intel International Science and Engineering Fair, Louisville, KY, May 2002
- Iowa State University Engineering Student Council Leadership Award, February 2004

Employment

- **Self Employed**—2001-Present
www.aprsworld.net, www.winddatalogger.com
 - Developed APRSWorld large geospatial database and accompanying webinterface for automatic vehicle and resource locating.
 - Designed, manufactured, and marketed microcontroller based weather datalogger to world-wide customer base.
- **Jarvis Computer Software**—1998-Present
www.jarviscomputer.com

- Extensive customer driven design and development of custom software. Phone andfield support and installation. In charge of Internet developments and products including software for dynamic automobile dealership websites, VPN, VOIP, wireless and wired networks. Developed microcontroller based operator interfaces for assembly line use.

Hobbies

- **Iowa State University Formula SAE—2002-Present**
www.isu-formula.org
 - Engine and electrical team leader responsible for development and fabrication of engine and electrical systems for formula style race car. Numerous design projects including vehicle electrical systems, tachometer, ignition driver, body power control, engine sensors, exhaust gas temperature. Fabrication projects including engine intake, exhaust, and fuel system.
- Amateur radio operator since age 11. Interested in digital communications, satellite, and emergency communications.
- Metal working, home shop with milling machine, sheet metal and numerous hand tools
- SCUBA diving, PADI certified Advanced Open Water