

RAHM LAVON

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U.S.A.

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EDUCATION

Jan 2003- present	Simon Fraser University, Burnaby, BC 3 rd year, Engineering Science Computer and Electronics (Dual Option Major)
Sept 2001- Dec 2002	Langara College, Vancouver, BC Arts and Science University Transfer Program
June 1998	Homeschool, Point Roberts, WA

PROJECT AND COURSE WORK

- Successfully developed and constructed an automatic uninterruptible power supply for automotive-based, line-sensitive devices
- Designed and built a vibration damped sensor mount for the SFU Aerial Robotics Group
- Constructed a high-speed H₂ gas generator for marine use
- Currently constructing an inertial-based auto-calibration control system for commercial robotics utilizing adaptive feed-forward
- Designed and implemented a large-scale accounting software package in PowerBASIC with emphasis on testing and business-friendly functionality
- Experienced with comprehensive memory management and symbolic mathematical manipulation in C++

SKILLS

Hardware

- Experienced with equipment such as Oscilloscopes, Spectrum Analyzers, DMMs, power supplies, and function generators
- Experienced with PCB design and fabrication
- Adept at developing mixed signal electronic devices
- Proficient with system design, assembly, and troubleshooting
- Experienced with VHDL programming of FPGAs and CPLDs

Software

- Competent in Assembly, BASIC, PowerBASIC, and C/C++
- Comfortable with DOS, Win16, and Win32 operating systems
- Experienced with Microsoft Word, Microsoft Excel, JASC Paint Shop Pro, Protel 99SE, and Eagle.
- Able to set up and maintain websites quickly and efficiently

Other

- Excellent communication and teaching skills
- Experienced with computer networks

INTERESTS

Electronics:

- Designed and built a number of devices including a video-camera digital multiplexer, an automotive UPS, and a switching automatic battery charger

Machining:

- Woodworking, metalworking, and fine mechanics

Computer Repair:

- Designing and assembling IBM-compatible PCs
- Troubleshooting and maintaining computer equipment
- Setting up RAID arrays / network / mass data storage systems

Other:

- Tutoring, Group work, and Reading
- Enjoy playing piano and listening to music

AWARDS

Oct 2003

1st Prize - \$3,000

Ken Spencer SFU Business/Engineering Venture Plan Competition

Entry: OmniVISION LaneAlert Automotive RADAR