

BLAKE ROBERTSON

4250 Knox Road, Suite 2123. College Park, MD 20740.
blaker@umd.edu - (301) 226-0482
<http://www.blakerobertson.com>

Objective

To obtain a challenging position where I can apply my product development skills in the industry.

Education

University of Maryland, College Park – College Park, MD (2000 – Present)

- B. S. in Computer Engineering with a citation in Entrepreneurship (Graduation expected May 2005)
- GPA (for classes in major): 3.4
- Member of the Hinman CEOs Nationally Acclaimed entrepreneurship program, IEEE, and Ecopledge.
- Named "Inventor of the Year" in 2003 by Hinman CEOs program

Professional Experience

IBM Extreme Blue – (June 2004- August 2004)

Pre-Professional Programmer

- Investigated new markets for the Cell processor developed by IBM, Sony, and Toshiba. Contributed to developing a business plan and presented our project to IBM executives at IBM's corporate headquarters in Armonk, NY.
- **GPStream** – developed a platform to demonstrate applications of the Cell Processor for pervasive computing. Our demo of the platform sent images generated by a terrain rendering engine over the wireless network to a PPC.
- **Virtual Movement Adapter** - designed a circuit which allowed the user to intuitively interact with the environment. The hardware provided digital compass, accelerometer and GPS information which informed the server to the orientation of the client. Filed a patent disclosure covering the VMA as a kinetic input device.

Alertus Technologies – (March 2003 – Present)

Chief Technology Officer

- Founded startup with a business student at University of Maryland. Company has received over \$100k in funding and won second place in the Maryland Business Plan Competition.
- **Information Receiver** – Designed an emergency alert & information dissemination device. Mixed Signal application design consisting of RF and microcontroller subsystems. Wrote firmware in PIC Assembly for recovering data from an FM Subcarrier, formatted data into warning messages which were displayed on a LCD.
- **Other Tasks** – Recruiting employees to develop the front end of our system. Preparing product for manufacturing by designing custom enclosure, performing cost analysis, analyzing FCC issues, complying with UL Regulations.

Professor Neil Goldsman – U. of Maryland, College Park (May 2002 – Present)

Lab Manager

- Initially began working as an intern over the summer. Subsequently, was hired by the professor to work on a few business ideas. I was the first undergraduate the professor had ever hired.
- **Interference Detector** – developed two interference detector circuits to assist research of improving noise in systems. Used parallel port programming to retrieve data from circuit and display information on an LCD.
- **Kid Watch** – Independently, developed a radio based monitoring system intended for daycare centers.
- **Isolation Milling Machine** – wrote a 75 page, publicly available guide covering PCB fabrication using isolation routing.

Public Software Contributions – (November 2002 – May 2003)

Programmer

- Developed GPS & Accelerometer classes for the Javelin Stamp which included a commented library class, test classes, and a complete application program with schematic drawings and part lists. (See www.parallax.com)

Morningstar Corporation – Columbia, MD (May 2001 – April 2002)

Test Engineer & Programmer

- Worked out of a R&D office budgeting time aiding assembly/testing of new products and handled multiple projects.
- **Test Site** - Installed a complete solar power testing facility to be used for long term testing of their products.
- **Tech Support Database** - Developed an online database to keep data synchronized between offices.
- **Corporate Website** – Complete design of website which is still in use today. See <http://www.morningstarcorp.com>

Other Entrepreneurial Endeavors – (May 1998 – Present)

President

- **Rave Gadgets, LLC.** – E-commerce based business, which sells the original inventions developed by the company.
- **Reset Productions** – a production company that planned events and fundraisers.

Summary of Qualifications

- **Product Development:**
- Embedded System Design using Microchip PIC16x & PIC12x Families, and Parallax's Javelin & Basic Stamp
- Integrated variety of peripherals including MEMs Accelerometers, GPS, RF transceivers, & various sensors.
- Extensive experience using Eagle PCB CAD software to design PCB layouts & create part libraries.
- Experience designing basic CMOS ICs using Cadence
- **Computer Skills:**
- Completed A+ Service Technician Certification (Software and Hardware Installation / Troubleshooting)
- Programming methodologies include C, C++, Java, CGI/Perl, JavaScript, CSS, SSI, and HTML.