

Karl Hiramoto

karl@hiramoto.org

<http://karl.hiramoto.org/>

USA Ph: (+1) 603.966.4448

USA Mobil: (+1) 508.517.4819

Spain Home: (+34) 951.273.247

Spain Mobil: (+34) 617.463.826

Work Experience

Cambridge Accusense division of Degree Controls Inc. (www.accusense.com & www.degreec.com)

Employment Date: June 2000 to present

Job Title: Design Engineer, Engineering Manager & Network Administrator

- Research and develop air velocity and temperature sensors. Design products for test and manufacturing. Development of software and electronics for AVT, AVS, F900, ATM2400, and custom OEM Products. Product specs on website www.degreec.com
- Developed US Patent # 6,829,930 Searchable at <http://www.uspto.gov/>
- Software engineering for: manufacturing automation of test equipment and wind tunnels, embedded software in products, database storage, PC applications, 8 bit and 32 bit programming.
- Technologies used: Lonworks microprocessor, MySQL, PHP, National Instruments Labview, C/C++, 8051 microprocessor, open source software, RS-232, RS-485, USB, Ethernet..
- Network & System Administration of company servers on a linux and windows network: www, e-mail, firewall, automated backups, fileserver, printers, VPN (Virtual Private Network). Apache, BIND, sendmail, postfix, squirrelmail, IMAP & POP, samba, MySQL, iptables and ipchains firewall. Use of Linux Redhat 5-9, Mandrake, Suse, Fedora, & Gentoo. Maintained IBM AIX 4.1 RS6000 system. Network security auditing.
- Managing engineering department consisting of an electronics technician and software engineer.

High Plains Center for Technology

(www.hpcnet.org/home)

Employment Date: May 1996 to May 2000

Job Title: Student Programmer Analyst

- Developed and programmed web based applications with databases for University and Business applications.
- Programmed CGI database applications in: PERL, C/C++, Java, Unix Shell Scripts
- Used Oracle 8.1.5. Wrote PL/SQL scripts.
- UNIX Platforms: IBM AIX (RS6000), Linux
- PC/Server hardware maintenance / upgrades.
- HTML and Javascript

KTEQ Rapid City 91.3 FM

(www.kteq.org)

Job Length: May 1997 to May 2000

Job Title: Station Manager (1 Year), Station Engineer (1 Year), DJ (3 years)

- Managed 80+ staff members and guided day to day operation of radio station.
- Station promotion, fundraising , public relations
- Engineer: Maintain studio hardware, FM transmitter repair and maintenance.
- DJ for three hour show since may 1997
- Wrote database program to hold information on 30,000+ albums at: <http://www.zoop.org/kteq/>

Zoop Productions

(www.zoop.org)

Job Length: December 1997 to May 2000

Job Title: Co-owner / Promoter

- Advertising, bookings, purchasing, event planning, sound system setup, lighting setup, video setup.
- Website work at: <http://www.zoop.org/>

Karl Hiramoto

Education

South Dakota School of Mines and Technology (www.sdsmt.edu)

- Graduated with a Bachelor Science in Computer Engineering (May 2000)
- EIT - Engineer In Training certificate

University Of Massachusetts Lowell Graduate School (www.uml.edu/grad)

- Completed 9 of 33 credits required for masters of science in Computer Engineering as of May 2004
- 3.833/4.0 Grade Point Average.
- Masters Level Classes In:
 - Operating Systems Design for Computer Engineers. (3 credits)
 - Analog Electronics and Operation Amplifier design. (3 credits)
 - Advanced Digital Logic and Electronics. (3 credits)

Organizations / Activities

IEEE

- Active member since 1997
- 3rd Place in 1999 Fire Fighting Robot Contest at the region 5 conference in Shreveport, Louisiana.
- 1st Place SDSM&T senior design contest 1999. Represented school in Shreveport, Louisiana.
- 1st Place SDSM&T senior design contest 2000. Represented school in St Louis Missouri.
- 1st Place in SDSM&T University robotics competition 1999.
- 1st Place junior design contest 1998.
- Worked on Fire Fighting Robot Contest spring 1998. Best 1998 SDSM&T robot. Competed in the region 5 conference in Ft. Worth TX.

System Administrator of my Linux box (www.hiramoto.org)

- Experience Administrating a Linux/Unix Box since May 1996
- Managing 20+ users
- Setup/Install of Slackware, Mandrake, Debian, and Redhat Linux, XFree86, MySQL, mSQL, majordomo, mailman, POV-Ray, gcc, gnome, kde, PGP, Apache, PPP server, Oracle database server 8.1.5, & security software.

Languages

- English: 1st language
- Spanish: Advanced Level
- German: Basic Level
- Japanese and French: A few basic words and phrases.

Other Interests

- Travel – A total of 22 countries on four continents and 35+ US States.
- Sailing, skiing, snowboarding, running, biking, swimming, boating, music, museums, computers.

Karl Hiramoto

References

Raouf Ismail

Vice President of sales for Degree Controls Inc.

Former President of Cambridge Accusense Inc.

18 Meadowbrook Drive

Milford, NH 03055

(603) 672-8900 ext 149

raouf@accusense.com

Alan Pham

Operations / Production manager.

18 Meadowbrook Drive

Milford, NH 03055

(603) 672-8900 ext 194

alan@accusense.com

Dr. Neil Chamberlain

Electrical and Computer Engineering Dept. SDSM&T

KTEQ Advisor, Advisor for IEEE robotics contest & Professor

Now working at NASA JPL

605-394-2458

Neil.F.Chamberlain@jpl.nasa.gov

Timothy Henderson

Vice President Business & Administration SDSM&T

KTEQ Advisor & TERC board member

501 E. St Joseph Street

Rapid City, SD 57701

605-394-2371

thenders@msmailgw.sdsmt.edu

Vickie Bender

High Plains Center for Technology

501 E. St Joseph Street

Rapid City, SD 57701

605-394-1299

vbender@taz.sdsmt.edu

Dave Turner

High Plains Center for Technology

501 E. St Joseph Street

Rapid City, SD 57701

605-394-3387

dturner@silver.sdsmt.edu