

Greg Keto
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Objective Seeking position: Linux/Unix Sysadmin, Electronics.

Education High School Diploma.

Certificates WVOC, Electronic Technician certificate.
WVOC, Network Technician certificate.
IDC Technologies, Process Control, PLCs & SCADA Systems certificate

Background Self study consisting analog and digital electronics, Boolean algebra, Karnaugh maps, truth tables, data acquisition & control, read/write electronic and mechanical schematics, PCB circuit design and fabrication, PCB SMT re-work, Operating Systems and algorithmic structure from machine to higher level languages.

Software development methodology with high level languages, scientific programming for quantitative measurement, fundamental Unix security and audit to establish TCB. File system maintenance and recovery plan. OSI interconnection standard (networking), sub-netting. ERP work flow management and inventory control.

Familiar with technical writing formats for the sciences including empirical reporting and publishing into academic formats such as IEEE and AIP using $\text{LyX/L}^{\text{A}}\text{T}_{\text{E}}\text{X}$. Librarianship, bibliographic methods of the sciences. Instructional and technical manuals.

Projects **Feature Movies:** Real Steel, Iron Man II, Pacific Rim, Underwater. Hydraulic motion control system operator, DMX512 prop lighting and animatronics.

Worlds Largest Cell Phone: Samsung, Cricket, Guinness Book. Wired qwerty keyboard matrix.

Skill Set **Languages:** C C++, CGI Perl, Perl, Sed Awk, Shell scripting, Regex, HTML 3.2 - 4.01 strict w3c, SQL, $\text{T}_{\text{E}}\text{X}$, $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$.

Systems: Unix SVr4 & posix: GNU Linux, Free BSD, SCO, Mac Os X and Android

Sub-systems: Apache httpd, NFS/NIS ypserver ypbind, Kerberos, Posix ACL, BSD Secure Levels, SE Linux, LSM, Samba, firewall router, NAT, ipchains iptables, ipfw, auditd TCB, mgetty sendfax, lpd, CUPS, saned, systat, RCS/CVS and cron, Mysql and Postgres.

Software: MAS90 (accounting), SQL Ledger (ERP), Open Office (MS Office), LyX (desktop publishing), qGIS, Gimp (photoshop), xfig, Dia(flowchart), gEDA, EagleCad (orcad), Labtech (Labview), ng-spice (Pspice circuit simulation), gnuplot, ffmpeg, mencoder, Tripwire, sha2sum, md5sum, cpio, traceroute, tcpdump, ethereal and nmap.

Hardware: Architectures Multibus II, x86, Atmel microcontrollers, Arduino, Raspberry Pi, embedded ARM and NAS. DMX 512 Console programming, Data acquisition control, digital counters, D/A, A/D and transducers. Wire harness fabrication, robotic moving and static, low voltage DC and High Voltage and Current.

Equipment: Oscilloscope, multimeter, function generator, multi-channel analyzer, dekavider, soldering iron, Hako 485 wave soldering station, Hako 850 smt soldering station, Wire crimp, ESD indicator, break press, drill press, arc welder, gas welder, caliper, micrometer, Ibico binder.

Interpersonal: Analytical problem solving. Self-start in unexplored programming environments with the understanding that practically all programming languages are fundamentally the same in structure and constructs. Good oral and written communication skills. Organizational, follow up, customer/vendor and colleague relations. Ability to interact in a professional manner with a culturally diverse group of people.

Experience

Electronics Technician –
Resawear Inc, Prescott, AZ

Oct 2017 – current

Re designed wire harness for 3d printer for high reliability and high cycle movement on the gantry X axis and E-chain Y axis. Reduced number of points of failure by removing many splice segments and using native connectors to switches, thermistors, heat coil, proximity and laser peripherals.

Train Yavapai College CTEC students fundamental 3d printing, electronic troubleshooting, Arduino micro-controller and production line work flow.

Production Assistant Craft Services –
WishMan Movie, Prescott, AZ

Sep 2017 – Oct 2017

Coordinated with Locations Manager and 1st AD daily setup of Craft Services for production crew and cast. Worked directly with Transport Teamsters moving gear from location to location.

Electronics Technician –
Legacy Effects, San Fernando, CA

May 2009 – Aug 2017

Operated Overdrive Motion Control System for animatronic and motion base. Used low voltage DC lighting, Arduino Pwm and Dmx512 to change color of ambient light within static props and characters. Light pipes, fluorescence, diffusion and reflection. Use ladder logic to simulate functionality of control panel, instrumentation props.

Designed, etched double layer pcb circuits using EagleCad to integrate hardware to the Arduino nano, pro mini and rduino. These circuits included BLE, NFC proximity, opto-isolated voltage sense, H-bridge motor drivers and regulated 5V power for neopixel.

Communicate and work with production staff, art directors as well as other departments to deliver the desired effect in a safe and reliable manner.

Electronics Technician/Linux administration –
Concept Overdrive, Burbank, CA

Jan 2007 – 2013

Overdrive control system used in the entertainment industry for motion control, camera control and animatronics. Design layout 6 layer PCB, assembly, wiring and testing.

Engineering assistant/technician –
Technical Associates, Canoga Park, CA

Sep 2001 – present

Radiation instrumentation technician, calibration, troubleshoot, repair and test. Knowledge of radioactive isotopes and measurement and detector types applicable to type of isotope.

Used the C language to acquire radiation levels from digital counters connected to radiation detectors, water flow and air flow transducers. Used GnuPlot to plot radiation data CPS after acquisition and convert to activity or dose.

Assembled electronics, programmed and tested a in situ tritium water monitor for particle accelerator beam dump. Using LabTech to control the monitor cycle including peristaltic pump, valves, relays, water flow meters, anthracene scintillation optically coupled to photomultiplier tubes for alpha/beta detection. NaI (TI) crystal for gamma detection.

PCB design from schematic, layout, PCB fab. Reverse engineered and reproduced power plant radiation detection PCB electronic sub-systems. Used Boolean algebra and truth tables to establish test procedure for digital circuit.

Setup a client/server technical document publishing system, with revision control on a multi-platform network. Technical documentation was published into three standard formats: plain-text, HTML strict w3c and pdf.