

David Ko

vsxx.github.io

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Education

- **University of Texas** Austin, TX
BS, Computer Science *August 2009 - August 2015*
 - Relevant courses: Principles of Computer Systems (OS), Information Assurance and Security, Computer Security, Cryptography, Data Visualization and Warehousing.

Work Experience

- **M&D Distributors** Humble, TX
Internship for IT Security *June 2014 - August 2014*
 - Maintained network and computer security in IT.
 - Used Various resources and software such as Spiceworks, WatchGuard, and WireShark.

School Projects

- **SpectraVu Medical** Vancouver, BC
Engineering Physics Project Lab, APSC 479 *Sep. 2001 - Apr. 2002*
 - Designed and implemented a digital video processing system for lung cancer imaging,
- **Analog Circuit Design and MOSFET Device Design**
Semiconductor Devices Course, EECE 480 *Sep. 2001 - Apr. 2002*
 - Designed a high-frequency cascode amplifier, simulated it using HSPICE, and did layout using Cadence Virtuoso Layout software. Manufactured on a Gennum GA911 chip.
 - Designed and simulated a deep sub-micron (70 nm channel) MOSFET using MEDICI.
- **Low-cost Optoelectronic Localizer**
Engineering Physics Project Lab, APSC 459 *Sep. 2000 - Apr. 2001*
 - Worked on the LoCOL (Low-cost Optoelectronic Localizer) project in a team of three.
 - Programmed a PIC microcontroller to control the timing of the three CCD cameras.
 - Designed power supply and re-built electrical circuits for the CCD sensors, processors.
- **Other Projects**
UBC and at home *1999-2000*
 - Designed and debugged a digital voltmeter using a Motorola 68000 processor.
 - Added features to the digital voltmeter including scrolling text, and a warning buzzer, which won 3rd place in the IEEE Voltmeter Competition.
 - Constructed and debugged a digital clock on a PCB for PHYS 159.
 - Built an AM short-wave radio at home, on a 2" × 2.5" piece of breadboard.

Awards

Faculty of Engineering Scholarship (\$2,300)	2002
Ontario Graduate Scholarship (OGS) (\$15,000)	2002-2003
Industrial NSERC Undergraduate Research Award (\$4500)	2002
UBC OSI (Outstanding Student Initiative) Entrance Scholarship (\$10,000)	1997-2002
Engineering Physics 50th Anniversary Scholarship (\$600)	2001
Anne. M. Mack Scholarship (\$500)	2001
NSERC Undergraduate Student Research Award (\$4000)	2000
United Food and Commercial Workers Union, Local 1518 Scholarship (\$1000)	1998
Top Senior Math Student Award	1997
B.C. Provincial Exam Scholarship (\$1000)	1997
B.C. Government Passport to Education (\$800)	1997
James Whiteside Elementary Parent Advisory Committee Award (\$200)	1997

Skills

Languages: C/C++, \LaTeX , Java, SPICE, MEDICI (TCAD), VHDL/VHDL-AMS, 68000 and PIC Assembly

Operating Systems: Linux (Debian), Solaris, UNIX, MacOS X, Windows 95/98/NT/2000/XP

Applications: Mathematica, MatLab, GNU Octave, LabVIEW, Cadence, \LaTeX , OpenOffice, MS Office XP, OrCAD schematic capture & PCB layout, Altera MAX+PlusII VHDL FPGA Design

Lab Skills: Digital/Analog Scopes, Spectrum Analyzer, Function Generators

Fab Skills: PECVD and sputtering deposition, UV lithography, wet etch, dry etch (RIE), mask aligner, step profiler, ellipsometry, infrared spectroscopy, x-ray diffraction

Miscellaneous: software configuration management, strong verbal and written communication skills, excellent troubleshooting and debugging skills, exceptional problem solving skills, good teams skills

Interests

Academic: Solid state devices, nanotechnology, photonics, microcontrollers, RF/wireless

Sports: Playing hockey and swimming

Computers: Currently maintain two official Debian Linux packages, Mozilla beta tester, enjoy using and learning Linux systems, Building electronics projects at home, and writing JAVA software

Musical: Playing guitar and piano

Membership: Student member of IEEE since 1998, Materials Research Society member since 2002

Other: Reading novels