

William Xu

Flow Controller, Aviation Guide - Embedded

Markham, ON - Email me on Indeed: [indeed.com/r/William-Xu/c7569b39e1956600](https://www.indeed.com/r/William-Xu/c7569b39e1956600)

To secure a position as a electronic engineer(hardware and firmware) within your organization.

WORK EXPERIENCE

Flow Controller, Aviation Guide

Embedded - 2009 to Present

Lightbar developed with embedded technology and control system theory and technology under Windows, Linux and uCii OS operating System.I am responsible for Linux kernel porting and drivers writing(LCD, USB, SPI, I2C, CAN, Ethernet etc). I have finished 12 products' design including hardware and software(firmware) and Mechanical(casing) since 2009.The 12 products are 1.Flow controller for agricultural airplane, 2.Guia Terra(a industrial PC), 3.Hydraulic servo controller, 4.RTK GPS base station, 4.AUTUBOOMS controller and 5.P-500 GPS Receiver.6.Tractor's autosteer controller.7.Spray Gate controller(airplane spay control for agricultural and forest).I responsible for all the schematic, PCB, program etc to become a products.

Engineer

Embedded - Barrie, ON - September 2007 to Present

Technician

Quintech Manufacturing Co., Ltd - Toronto, ON - March 2006 to December 2006

CNC Machine repair and CNC programmer experience MAZAK, Deawoo, Yaskawa, Mitsubushu CNC electronic.

Senior Engineer

RiXin Technology Co.,Ltd ,Guangdong P.R,China - GuangZhou - 1998 to 2005

Guangdong P.R, China

(A US join venture Company) 1998-2005

Leading a team responsible for electronic products design, assemebly, test and troubleshooting.

experience with PowerPC, X86, MC68000, V40,8051, Microchip dsPIC microprocessor.ARM processor(Atmel, Philips, Samsung, etc), experience with Linux, Embededed wince and Micro C OS II.

And Xilinx FPGA, SiRF GPS Chip, GSM/GPRS TC35i module, Nueron chip etc, thousands of IC to design products.

Using Oscilloscope and Logic Analyzer instruments, CAD tools such as Altium Designer, Protel and DXP, PMLAB, XILINX ISE, Model Sim, Eargle, OrCAD etc.

The products developed inclu GSM/GPRS Power Monitoring system, GPS Vehicle tracing system, SCADA system etc.

Electronic Engineer Automation and Elctronic Institute, GuangDong Branch, Chinese Academy, P.R.China
Team Player and team leader responsible for products design, assembly, test and troubleshooting.Translated and published 3 books about Electronics and networking.

EDUCATION

PostDiploma of Electronic Engineering of Technology

January 2007 to August 2007

RCC Institute of Technology - Toronto, ON
1997

Master in Industrial Electronic Automation

South China University of Technology
1991

Bachelor of Engineering in Industrial Electronic Automation

South China University of Technology
1982

ADDITIONAL INFORMATION

- Over 25 years experience as a Senior Embedded Software Engineer and Hardware Engineer with a Master Degree. Extensive knowledge and experience in Linux Kernel porting and linux drivers writing.
- Possess expertise in embedded real-time system, hardware/software(firmware) integration, digital/analog / RF circuit design, C and C++, experience in OOP, data communications USB, RS-232/RS485/RS422, LPT, SPI, I2C, JTAG, GSM/GPRS, GPS, CAN, CPLD, FPGA and VHDL design. Experience with ARM, PowerPC, X86, ColdFire, MIPS microprocessors.
- Ability to work with hardware developing tool including Logic Analyzer, Oscilloscope and Multimeter, Software tools including Altium Designer, Eagle, Protel DXP, OrCAD, Xilinx ISE, Mentor ModelSim, MPLAB, Visual studio, Labview, Microchip MPLAB, ARM ADS v1.2, MATLAB etc.
- Proficiency with Program Language C and C++, Windows MFC, Labview and many kinds of assembly language such as X86, Microchip dsPIC, Phillips LPCxxxx, Atmel 9200, Samsung S3c244x(ARM9), MCS-51, Z80, MC68000.
- Proficiency with Windows and Linux, Vxwork, especially in Embedded WinCE and Embedded Linux. Linux Cross-compiler environment system with ARM Processor.
- Efficient communication skills in English, Mandarin and Cantonese, both written and verbal.
- Excellent team leader and team-player who possesses the ability to complete assigned tasks efficiently.
- Strong organizational, analytical, multi-tasking, time-management and problem solving skills.