

**TOM FONES**  
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**OBJECTIVE:**

Device Driver development in a Windows Seven/Eight environment

**SUMMARY OF QUALIFICATIONS**

I have built a bus driver and peripheral drivers for a legacy bus in the plug-n-play world. I have converted a video driver to 64-bit Windows-XP. I have built device drivers and integrated test harnesses for many classes of devices on the Windows 2000, XP, & Server 2003 platforms. I have also developed a template procedure for converting NT 4.0 non-plug-n-play drivers to Win 2K/XP plug-n-play compliant drivers.

I have built Computer-based-FAX products running on DOS, Win 3.1 and Windows 2K. These products include printer device drivers, serial device drivers and DLLs.  
Please see the above WEB site.

I am experienced with Windows diagnostic tools: WinDbg, ProcMon, KernRate, and various protocol analyzers.

I am experienced with the Windows kernel storage device stack.

I have experience with software validation products TestQuest and Q.A. Partner/Silk.

**LANGUAGES**

C/C++, (MSVC/MFC), Intel 80x86 Assembler, PASCAL, TAL

**HARDWARE/SOFTWARE** I have experience on the following:

1. Intel Pentium, AMD64, ARM RISC SOC
2. Microsoft Windows NT/2K/XP 7/8, Linux, DOS
3. TestQuest/Validor, Silk/Q.A. Partner, LanSleuth

**Professional Organizations**

IEEE, PCI-SIG

I am conversant in French and Spanish.

I can be found on Linked-In.

## PROFESSIONAL EXPERIENCE

### **2015 - Samsung Corporation**

1) Modifications to the Windows 8.1 storage & file-system stack in order to demonstrate Samsung's hardware feature multi-stream on their NVMe SSD. Improved NAND write amplification, SSD lifetime and write throughput by approximately 50%. 2) Conversion of a Linux In-Storage Computing package to Windows (*Windows 8, C++, VS-2013, WDM, Storport-Miniport* )

### **July 2014 – December 2014 Intel Corporation**

KMDF & UMDF drivers for a Windows 8.1/PhoneOs SOC Smart-phone

### **January 2013 – December 2015 HTF Consulting**

Built a simulation suite of memory-mapped bus & devices - validating device control, plug-n-play, power mngt. and WMI function of device-level drivers on. Storage and throughput devices.

Please visit the WEB site above. (*Windows 7/8, C++, VS-2012/3, WDK, KMDF, Windbg, Driver Verifier*)

### **April 2011 – August 2012 - Intel Corporation**

Device driver development and debugging on Rapid Storage Technology.

(*Windows 7 & 8, WDM, Storport-Miniport driver model, RAID, SCSI protocol, SATA, Visual-Studio 2012*)

### **October 2009 – September 2010 - Numonyx Inc**

Built storage device driver and verification testware on Windows and Linux for a PCM SSD disk.

(*WinServer 2008, Windows Seven, Linux, WDF, SCSI protocol, SATA, Visual-Studio 2008* )

### **April 2008 – May 2009 - Sun Microsystems.**

Built bus-level drivers to implement USB-over-IP, supporting many device-level USB drivers, including UsbStor.sys and the storage device stack.

(*Windows XP, Vista, WinServer 2003 x64, Windows Driver Foundation, WinDbg, CATC analyzer*)

### **January 2006 – May 2008 - Themis Computers. Multiple contracts**

Built a bus-level XP driver for the VME bus with the Tundra U2 controller chip. Built device-level drivers for devices on the VME bus in an embedded system. Built a bus-level driver for the PLX 2P2 board.

Converted Exar serial drivers to work with the 2P2 on a new system board. Converted all drivers to x64.

(*Windows-XP x64, Windows Driver Model, Visual-Studio 2005*).

### **July 2006 – December 2006 - Silicon Motion.**

Converted a 32-bit video driver (miniport & rendering DLL) to 64-bit Windows-XP.

(*Windows-XP x64, Windows Driver Model*)

### **2002 – 2005 HTF Consulting.**

Built device simulation suite for validating device control, plug-n-play, power mngt. and WMI handling of device-level drivers and filter drivers on Windows XP. Built sample device-level drivers, including drivers for USB, Video, Digital-IO and Serial. (*C/C++, WDK, KMDF, Windbg, MFC*)

### **Dec. 1999 to March 2002 - Wyse Technology.**

Use of TestQuest to automate software validation of many components of Wyse's thin-client terminals:

(*Win 2K; C/C++, TestQuest, Visual SourceSafe*)