



DEVELOPING DRIVERS
WITH THE
WINDOWS[®]
DRIVER FOUNDATION

*Penny Orwick
Guy Smith*

Developing Drivers With The Windows Driver Foundation Developer Reference

S Marginson



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Developing Drivers with the Windows Driver Foundation Penny Orwick, Guy Smith, 2007-04-25 Start developing robust drivers with expert guidance from the teams who developed Windows Driver Foundation This comprehensive book gets you up to speed quickly and goes beyond the fundamentals to help you extend your Windows development skills You get best practices technical guidance and extensive code samples to help you master the intricacies of the next generation driver model and simplify driver development Discover how to Use the Windows Driver Foundation to develop kernel mode or user mode drivers Create drivers that support Plug and Play and power management with minimal code Implement robust I O handling code Effectively manage synchronization and concurrency in driver code Develop user mode drivers for protocol based and serial bus based devices Use USB specific features of the frameworks to quickly develop drivers for USB devices Design and implement kernel mode drivers for DMA devices Evaluate your drivers with source code analysis and static verification tools Apply best practices to test debug and install drivers PLUS Get driver code samples on the Web

USB Complete: The Developer's Guide, Fifth Edition Jan Axelson, 2015-03-01 Developers who design and program USB devices have a new resource in the fifth edition of USB Complete The Developer s Guide This edition adds an introduction to USB 3 1 and SuperSpeedPlus bus which offers a 2x increase in bus speed over USB 3 0 s SuperSpeed For designs that don t require USB 3 1 s capabilities the book also covers USB 2 0 technology and applications USB Complete Fifth Edition bridges the gap between the technical specifications and the real world of design and programming Author Jan Axelson distills the fundamentals of the protocols and guides developers in choosing device hardware deciding whether to target a USB class driver or another host driver and writing device firmware and host applications Example code in Visual C shows how to detect and access USB devices and how to program and communicate with vendor defined devices that use the human interface device HID class driver and Microsoft s WinUSB driver Also covered are how to use bus power including new advanced power delivery capabilities wireless communications for USB devices and developing embedded hosts including dual role USB On The Go devices Programmers and hardware designers can rely on USB Complete s Fifth Edition to help get projects up and running quickly Students and hobbyists will learn how to use the interface built into every PC Instructors will find inspiration and guidance for class projects

USB Complete Jan Axelson, Now in its fourth edition this developer s guide to the Universal Serial Bus USB interface covers all aspects of project development such as hardware design device firmware and host application software Topics include how to choose a device controller chip cut development time by using USB classes and write software to access devices that perform vendor specific functions Example codes are provided using Visual Basic NET and Visual C NET for performing tasks such as detecting device arrival and removal and transferring vendor defined data using the human interface device class This newest edition has updated information on controller chips USB classes power use and Microsoft s WinUSB driver

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