Windows 7 Device Driver (Addison-Wesley Microsoft Technology Series)

Ronald D. Reeves Ph.D.

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> "The chapter on programming a KMDF hardware driver provides a great example for readers to see a driver being made."
> –Patrick Regan, network administrator, Pacific Coast Companies

The First Authoritative Guide to Writing Robust, High-Performance Windows 7 Device Drivers

Windows 7 Device Driver **brings together all the information experienced programmers need to build exceptionally reliable, high-performance Windows 7 drivers. Internationally renowned driver development expert Ronald D. Reeves shows how to make the most of Microsoft's powerful new tools and models; save time and money; and efficiently deliver stable, robust drivers.**

Drawing on his unsurpassed experience as both a driver developer and instructor, Reeves demystifies Kernel and User Mode Driver development, Windows Driver Foundation (WDF) architecture, driver debugging, and many other key topics. Throughout, he provides best practices for all facets of the driver development process, illuminating his insights with proven sample code. Learn how to

- Use WDF to reduce development time, improve system stability, and enhance serviceability
- Take full advantage of both the User Mode Driver Framework (UMDF) and the Kernel Mode Driver Framework (KMDF)
- Implement best practices for designing, developing, and debugging both User Mode and Kernel Mode Drivers
- Manage I/O requests and queues, self-managed I/O, synchronization, locks, plug-and-play, power management, device enumeration, and more
- Develop UMDF drivers with COM
- Secure Kernel Mode Drivers with safe defaults, parameter validation, counted UNICODE strings, and safe device naming techniques
- Program and troubleshoot WMI support in Kernel Mode Drivers
- Utilize advanced multiple I/O queuing techniques

Whether you're creating Windows 7 drivers for laboratory equipment, communications hardware, or any other device or technology, this book will help you build production code more quickly and get to market sooner!

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