

IEEE Oregon Seminars at OctoberBest 2009

IEEE02: “Rolling Your Own RTOS Workshop”

Speaker: John Shaw, President, Shaw Technologies, Inc.

Date: Wednesday, October 7, 2009

Time: 8:00 AM – 11:50 AM

Location: Tektronix Conference Center, 13975 SW Karl Braun Drive
Beaverton OR 97077

Cost: \$75/\$99 (See Registration Section for complete pricing info)

CEUs: 0.3 CEUs (3 PDH) awarded upon completion

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Web: <http://www.ieee-oregon.org/>

This is a half-day technical seminar sponsored by the IEEE Oregon Section.

Registration/check-in starts at 7:30 am, with the seminar starting promptly at 8:00.

Schedule:

- 7:30 am – Registration and Refreshments
- 8:00am – 9:30am – Workshop
- 9:30 am – 10:00am – Morning Break (approximate)
- 10:00 am – 11:30 am – Workshop
- 11:30 – 11:45 am Wrap-up, evaluations
- Noon – OctoberBest 2009 Keynote, complimentary lunch (with separate OctoberBest registration)

Rolling Your Own RTOS Workshop

Abstract:

Real Time Operating Systems provide essential services in many embedded systems. Often, a commercially available RTOS is used, but for many products this is expensive overkill. This workshop will explore the reasons why you might want to write your own, as well as the fundamental principles of RTOS design.

Who should attend:

Anyone developing small embedded systems (no mass storage).

Prerequisite:

Experience with embedded systems, microcontroller and/or microprocessor architectures.

What you will learn:

You will learn how to develop interrupt driven real-time systems and I/O drivers, and multi-threaded operations.

Registration:

The seminar will be held Wednesday, October 7 at the Tektronix Conference Center on the Tektronix Beaverton Campus, 14200 SW Karl Braun Drive, Beaverton, OR 97077. Registration/check-in starts at 7:30 AM, with the seminar starting promptly at 8:00. Refreshments will be provided. Lecture notes will be provided to all attendees. In addition, 0.3 CEU's (3 PDH) will be awarded upon completion of the seminar.

	IEEE	Other
Registration Fee	\$75	\$99

Directions:

The Tektronix Conference Center (Building 38) is located on the Tektronix Beaverton Campus. See http://www.tek.com/ir/campus_map.pdf From SW Jenkins, turn onto Hocken, then right onto Terman and then left onto Zworykin.

Speaker:

John Shaw has been doing embedded systems work for over 40 years. After debugging a multi-tasking, multi-user OS for a hotel in 1972, he wrote his first embedded OS in 1973 for use in the Braniff Airlines Terminal baggage handling system at the Dallas Fort Worth International Airport. Subsequent embedded OS designs have included one for a communications card for the Tektronix 4010 Graphics Terminal (using an 8080 microprocessor), one for a retinal scanning security product (using a 68HC11 microprocessor), one for digital signal processing in a medical product (using an Analog Devices AD2101 Digital Signal Processor), and one for a high end Digital Signal Processing card (using a Power PC G4 processor) for Credence Systems.

NOTE: The registration fee includes one copy of the lecture notes, continental breakfast, morning break. Admission to OctoberBest 2009 requires separate (free until Oct. 1) registration. The organizing committee reserves the right to substitute speakers, restrict size, change venues, or to cancel the seminar. In the event the seminar is canceled by the organizing committee, registration fees only will be fully refunded. Individuals canceling their registration prior to September 24 will receive a full refund. No refunds will be made to individuals who cancel their registration after September 24. Substitute attendees accepted. Attendance is limited. Registration will be confirmed on a first come, first served basis.