

November 2010

Rock River Valley Section

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The Institute of Electrical and Electronic Engineers, Inc.

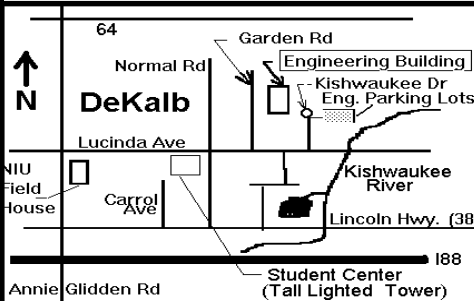
Annual Joint IEEE RRVS, RRVS NIU Student Branch and IEEE Computer Society Chapter Meeting
SERVING IEEE MEMBERS OF NORTH CENTRAL ILLINOIS AND EXTREME SOUTH CENTRAL WISCONSIN

Agile for Embedded Systems: An Overview

WHEN Thursday, November 18, 2010

WHERE

Northern Illinois University, DeKalb, IL; Engineering Building, Auditorium room 354. Please call Don Zinger at 753-0540 if you need directions from outside DeKalb. From Annie Glidden and Lucinda, take



Lucinda east to Kishwaukee Dr. (0.5 mi). Turn left (north) on Kishwaukee Dr. to parking lot at end of street (0.25 mi). The engineering building is across Kishwaukee Dr. to the northwest (large steel and glass building). Parking passes required, will be provided at the registration table in the Engineering building when you arrive.

AGENDA

6:00 PM Networking
6:30 PM Dinner
7:30 PM Presentation

PROGRAM

True or false?

- Agile methods are designed for desktop apps and web apps
- Agile is risky to use when you

have hard deadlines to meet

- Agile has not been proven for embedded and safety-critical systems
- Agile is only for software development, not hardware

Each of these statements is false. In fact, Agile practices were initially inspired by the difficulty of working in embedded product development. Embedded Agile adds specific additional technical practices to "plain vanilla" Agile. Embedded development has more constraints.

Embedded teams typically are more enmeshed with other company departments, making it difficult to attain the autonomy that allows agile teams to go fast. The final customer is usually much more remote than in business or web software applications: a heart transplant patient cannot give useful feedback on blood analyzer design.

This presentation will cover:

- What is Agile?
- How to bootstrap an embedded project using Agile methods
- Examples of Agile success in real-world embedded projects

SPEAKER

Nancy Van Schoenderwoert is an Agile Enterprise coach and founder of Lean-Agile Partners, Inc. She has over a decade of experience applying Agile practices as an engineer, manager, and consultant. She has led Agile change initiatives in safety-critical, highly regulated industries, and coached clients in the art of



Agile technical and management leadership. Nancy's experience spans embedded software and hardware development for applications in aerospace, factory automation, medical devices, defense systems, as well as financial services. She holds a BSCE in Computer Engineering from Rochester Institute of Technology and is a regular presenter at many Agile-related and other industry conferences. She is president of greater Boston's premier agile user group, New England Agile Bazaar.

MEAL INFORMATION

Dinner will feature Chinese buffet from Yen Ching in DeKalb. The costs are: member: \$5, non-member: \$10, student members: \$2, student non-members: \$5. Please make **dinner reservations** by **calling Laura at 815-753-9974 or sending her an email (lmweber@niu.edu) by Tuesday, November 16, at 5pm**. Please include the following: your name, phone number, email address and IEEE member number. Unemployed members may call the treasurer for special arrangements.

NOTE

The meeting is open to the general public. You need not be an IEEE member to attend. Guests are welcome. Please call Laura at 815-753-9974 for questions.