LUCAS-dagen 21/10
& film?

Jonas Wisbrant
Jonas Wisbrant - kort CV

Samhällsvetare vid LU 1989
Kommunikation och webbutveckling 1990
Programvaruingenjör LTH i Helsingborg 2002
Institutionen för Datavetenskap 1 2002
LUCAS - Center for Applied Software Research
Datorer i System
Algoritmer och datastrukturer
Ingenjörsprocessen

LTH / Datavetenskap 2009
Kommunicera: EASE / Programvaruportalen LUCAS
Utbilda: Datorer i System, Ingenjörsprocessen
Mål

1. Marknadsföra LUCAS-dagen 2010

2. Hitta skådespelar till PR-filmer i kursen Ingenjörsprocessen - metodik
### Fairs fall 2010

<table>
<thead>
<tr>
<th>Event</th>
<th>When</th>
<th>Target group</th>
<th>Focus</th>
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<tbody>
<tr>
<td>Lund Circuit Design Workshop</td>
<td>22-23/9</td>
<td>+100 regional, national and international hardware people</td>
<td>SoS findings, Mobile Heights EASE</td>
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<td>ECS2010 Embedded Conference Scandinavia 2010</td>
<td>October 19-20</td>
<td>Swedish embedded industry + Visitors to Tekniska mässan</td>
<td>SoS findings, EASE findings</td>
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<td>➡ Automaton Steering Chip Mobile Heights</td>
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<tr>
<td>LUCAS-dagen</td>
<td>October 21</td>
<td>70-100 researchers and practitioners in regional software cluster</td>
<td>EASE findings SIGRUN Mobile Heights (+BC)</td>
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<tr>
<td>Öredev ???</td>
<td>November 8-12</td>
<td>+500 regional developers 20 international speakers 50 regional students</td>
<td>EASE findings --&gt; small robot SIGRUN Mobile Heights</td>
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September 2010
<table>
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<tr>
<th>AM</th>
<th>5 x workshops and tutorials</th>
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<tr>
<td>PM</td>
<td>Invited talk: <strong>Open Source in Mission Critical applications</strong> Mats Jonsson, Systems Architect@Saab Systems</td>
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<td><strong>EASE</strong> and <strong>ELLIIT</strong> overview</td>
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<td>Other topics</td>
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<td></td>
<td>Mapping streaming applications to many core architectures</td>
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<td>Static Analysis and Transformations of Dataflow Multimedia Applications</td>
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<td>Palpable Computing in health care</td>
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<td>Semantic Applications of Text Processing</td>
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<td>How do humans communicate with a mobile robot?</td>
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<td>Regression Testing Practices</td>
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<td>Automated Linking of Natural Language Software Artefacts</td>
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<td>+ guided tour in the robot lab</td>
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In this hands-on session, we will first briefly introduce CP over finite domain and then concentrate on how we can define and solve different problems. We will illustrate CP approach with examples solved by our constraint programming solver JaCoP (Java Constraint Programming library, http://www.jacop.eu).

The participants will get opportunity to try the solver with existing or own problems. Bring your own laptop with WLAN connection to put your hands-on CP.
WS 2: Configuration Management Workshop: What would you like CM to do for you - and what value can CM bring you?

This is a highly interactive half-day workshop where you will discuss issues that you find important in your daily operations and that you think CM might solve for you. You will learn how the CM principles can be applied in many different contexts. Based on the workshop discussions and the relevant capabilities of CM you will receive a list of literature and links that can guide you to improve your application of CM in your business.
In this hands-on session, we will introduce the JastAdd system, and how it can be used to implement DSLs declaratively. The advantages are that you get more high-level, concise, and extensible DSL implementations. JastAdd is open source, and is developed at LTH.

We will illustrate the approach by implementing a small DSL together, so preferably bring your own laptop with a WLAN connection.
WS 4: Open Source Experience workshop

The objective of the workshop is to exchange experience from using open source software in development.

At the workshop participants informally present their experience from development with open source software, for example from using open source components in their product development, or from participating in open source communities.

The intention is to give both an insight into how others in similar situations work with these questions, and to give feedback on one's own work from other organizations.
WS 5: Sigrun Research-Industry Exchange Workshop

When: 2010-10-21 at 10.00-12.00 and 14.30-16.30

Som en del av LUCAS-dagen i Lund arrangerar vi en workshop för utbyte av forskningsresultat och industriella behov mellan företag, myndigheter och högskolor.

Förmiddagen kommer ägnas åt presentationer av forskningsresultat som är ”färdiga” att tas ut till praktisk användning inom industrin. Under eftermiddagen planerar vi ett antal företagspresentationer där företagets verksamhet och behov av forskning och och samverkan med andra företag presenteras.
LUCAS-day October 21

✓ AM  5 x workshops and tutorials

PM
- Invited talk: Open Source in Mission Critical applications Mats Jonsson, Systems Architect@Saab Systems
- EASE and ELLIIT overview

Other topics
- Mapping streaming applications to many core architectures
- Static Analysis and Transformations of Dataflow Multimedia Applications
- Sensor based robot control over real-time networks

- Palpable Computing in health care
- Semantic Applications of Text Processing
- How do humans communicate with a mobile robot?
- Regression Testing Practices
- Automated Linking of Natural Language Software Artefacts

+ guided tour in the robot lab
Guest talk: Open Source in Mission Critical applications

Bringing Free and Open Source Software (FOSS) into Mission Critical defense applications is no easy feat, especially when nobody at your company has done it before. The amount of resistance from control mechanisms and process owners at a company like Saab can crush even the most strong willed...

...Building systems out of many different FOSS components written in different languages for different purposes means you face a design and architecture challenge. You also have to work hard with a great number of low level technical details to get them to play nice.

Mats Jonsson, Senior Systems Architect at Saab Systems
Invited talk: Open Source in Mission Critical applications Mats Jonsson, Systems Architect@Saab Systems

- EASE and ELLIIT overview

Other topics
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+ guided tour in the robot lab
Kursen Ingenjörsprocessen metodik

Innehåll

• Projektplanering
• Kravhantering
• Arkitekturdesign
• Testning
• Modeller av utvecklingsprocessen för programvara

Formalia

5 hp
Obligatorisk för C1, D1, alternativobligatorisk för IE3
Del 1 av 3 kurser

Önskemål:
Filmsnutar från praktiker som under 2-3 minuter berättar om utmaningar och möjligheter på jobbet
Anmäl dig till LUCAS-dagen 21/10

Föreslå personer som vill berätta om jobbet på film:

- Projektplanering
- Kravhantering
- Arkitekturdesign
- Testning
- Processutveckling