

EMBEDDED CONFERENCE SCANDINAVIA 2016

A LEADING EMBEDDED AND INTERNET OF THINGS EVENT

NOVEMBER 22-23, 2016
KISTAMÄSSAN • STOCKHOLM
SWEDEN

EXCERPTS FROM THE PROGRAM:

- **INTERNET OF THINGS:** Two full days program covering the whole scenario of IoT. From FPGA and μ -Controllers and connected IoT systems to infrastructure and security aspects. We will also look at IoT in practice; Experience from real life projects and applications in automotive.
- **SOFTWARE DEVELOPMENT:** Agile methods, Modeling and compiler technology. Software security, test and verification. Open source development for embedded applications.
- **IN-DEPTH TUTORIALS:** Reliable code with MISRA C, model-oriented software engineering, code coverage and testing methodologies
- **HANDS-ON WORKSHOPS:**
 - IoT applications made easy using KEIL MDK
 - Analog simulation using LTspice

KEYNOTE SPEAKERS:



Digitalization – The Fourth Industrial Revolution!?

TOMAS LAGERBERG
Manager automation solutions
– **ABB Corporate Research**



Knowledge – the true shortcut

KRISTINA FORSBERG
Technical Specialist in Safety-
Critical Systems – **SAAB**



Securing the embedded Internet of Things

NILS STEEN
Consulting Systems Engineer,
Security - **Cisco Systems**



Only great developers make great IoT solutions

MAGNUS MELANDER
Founder - **SMSE** and
Co-founder - **THINGS**

A new level for Embedded Conference Scandinavia!

LAST YEAR EMBEDDED CONFERENCE SCANDINAVIA, the internationally renowned meeting place for professionals in the field of embedded technology, took a giant leap. With the same successful concept, a compact exhibition, a world-class conference and appreciated social activities, Embedded Conference Scandinavia has grown over the years and is now a must-attend event for everybody in the European embedded and IoT industry.

WITH ALMOST 2 000 PROFESSIONALS VISITING the conference and the exhibition the Conference has established itself amongst the largest embedded events in Europe. With visitors and exhibitors from more than 25 countries around the world, Embedded Conference is now more international than ever.

EMBEDDED CONFERENCE SCANDINAVIA OFFERS YOU a comprehensive exhibition with some 80 companies and organizations presenting all the new products, services and trends covering all the needs of the industry. We will as always also offer an internationally top ranked conference with more than 70 seminars and presentations, well known key-note speakers and of course the presentation of this year's winners of the Swedish Embedded Award.

ECS is a truly not to miss event! Welcome to join us November 22-23!



Lena Norder
CEO
Svensk Elektronik/
The Swedish Electronics Trade Association

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IN EMBEDDED TECHNOLOGY

KOM OCH TÄVLA I VÅR MONTER, OCH FÅ CHANSEN ATT VINNA EN "HÖVDING"

Prevas är ett tekniskt IT-företag som erbjuder lösningar, tjänster och produkter till företag som utvecklar produkter med ett stort IT-innehåll eller som har behov av att effektivisera eller automatisera sin verksamhet.

Med spetskompetens inom teknisk produktutveckling, inbyggda system och industriell IT & automation bidrar Prevas med innovativa lösningar och tjänster som skapar tillväxt.

Möt två av våra specialister!

Den 22:e kl 09:15 talar Daniel Rasmussen om: *The Prevas Simple Connect (PSC)* och den 23:e kl 09:15 talar Kim Højgaard-Hansen om: *ROE-lite Powering Industrial Linux!*

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Prevas

Innovation for Growth

NOVEMBER 22, 10.00

Only great developers make great IoT solutions

An IoT application is a quite complex thing, involving at least three industries to collect data, manage it and distribute the results in the right format at the right place and time. All efforts are basically useless until the end result shows up when and where we want it: the package is delivered, the carbon oxide level is too high, too much vibrations in the fan, the door is unlocked, there is a free parking space further down the road and so on. It is hard to calculate ROI on the investments needed to capture the information we are looking for, but it's even harder to visualize what will happen when our application is implemented. We need prototyping, testing with our employees and clients and agile development approaches to optimize our solutions. To do that we need developers mastering the prototyping tools, software and hardware, but we also need great developers to make sure our final solution delivers sustainable customer and business value which require top class UX, architectures supporting future privacy requirements, efficient antennas, excellent power management and so on. Great IoT solutions simply require brilliant developers.



PRESENTER: Magnus Melander, Founder - **SMSE** and Co-founder - **THINGS**

Magnus is Swedish entrepreneur and independent consultant in general management, sales, marketing, branding, business development, M&A. His speciality is helping companies to improve their business by leveraging new technology, and his focus since 2010 is Internet of Things. He founded the IoT consulting company B3 Connect Compute and the IoT blog connectcompute.com in November 2011. He initiated the alliance for Swedish IoT entrepreneurs, SMSE, in March 2012 and was nominated for the Mobile Initiative of the year award "Guldmobilen" 2013. In 2014 he co-founded THINGS, a co-workspace for startups with hardware as part of their solution. He has 34 years of international ICT industry experience, including positions with

Springworks, IBM, Apple, 3Com, BrainHeart Capital, 7Signals and B3IT, and board experience from a handful of companies including Evothings, Mobil Business, THINGS, Square Publishing, Possio, April, Clue, La Yin, Calazo, Edgware, Radionet Oy, Åkerströms, Service Factory and Excilan. Magnus is a frequent speaker at international industry events, has spent a lot of time with China and was the author of the BrainHeart Wi-Fi Chronicle 2001-2005. He started The Internet of Everything Chronicle in August 2013 and has written "What decisions makers need to know about M2M aka Internet of Things".

NOVEMBER 22, 13.20

Digitalization – The Fourth Industrial Revolution!?

Digitalization has already to a large extent revolutionized our daily life. Just think about how we listen to music today, or do bank business, or shop, or learn new stuff etc. The smartphone has quickly become an important part of our life. For young people even the center of gravity, the thing that their life is spinning around! This digital revolution really started when Apple announced their first iPhone back in 2007, i.e. less than 10 years ago. This has in turn accelerated development of mobile communication, computer graphics, CPU chips, sensors, cloud storage, embedded systems etc. When people talk about the fourth industrial revolution they are talking about that digitalization now really are starting to impact and transform also industrial sectors. Companies that want to survive in the future must embrace new technology and use it to increase their competitiveness in a global market.

Tomas Lagerberg will talk about the important technologies that are driving this fourth industrial revolution, as well as how it might affect industrial companies. Some questions that might be answered during his presentation are "what does computer gaming have to do with industrial automation?", "where do humans fit into the future digital plant?" and "what is the significance of the fact that Gangnam Style has more than 2.5 billion YouTube viewings?"



PRESENTER: Tomas Lagerberg, Manager automation solutions, **ABB Corporate Research**

Tomas Lagerberg, born in Sandviken, Sweden 1959, graduated in Computer Systems from the Royal Institute of Technology in 1983. He is married with three children and is a passionate fan of the Leksand icehockey team. He joined ABB as an executive trainee the same year and has remained with ABB ever since. He has held various positions including global marketing and product management for ABBs control systems business as well as forming and heading a global business unit on Industrial IT Platform. Since 2004 Tomas has been with Corporate Research and headed automation research for ABB Sweden. His department currently consists of around 60 researchers working in areas such as control, optimization, software, user experience, mechanics, robotics and industrial communication.

NOVEMBER 23, 10.00

Securing the embedded Internet of Things

Internet of things is growing in a unprecedented rate creating new opportunities for companies to utilize. But with everything connected, cyber security needs to be up to par to counter attacks on data, software and the infrastructure. Come and see what Cisco is doing to secure the management, transport and data plane.



PRESENTER: Nils Steen, Consulting Systems Engineer, Security, **Cisco Systems**

A sixteen year Cisco veteran, Nils has worked with securing critical infrastructure for more than two decades. As a senior specialist at Cisco, he is focused on the intersection between security, networking and critical infrastructure. Before joining Cisco he was responsible for designing and maintaining several major service provider networks.

NOVEMBER 23, 13.20

Knowledge – the true shortcut

When designing dependable systems it is essential to understand the intended function and the level of safety connected to the function. If this is known, we can apply classic redundancy and fault tolerance concepts to achieve sufficiently safe designs. This talk will address what is necessary in order to design safety critical embedded systems (fail-stop and fail-operational) using experiences from the avionics industry. Further, the talk will touch upon challenges with increasing and more advanced functionality - mostly enabled through software. In such software intensive systems, the understanding of intended function and a deterministic behaviour in presence of faults and errors is becoming more difficult.

This trend, with ever increasing integrated functions, in embedded systems combined with insufficient assessment methods to cope with the complexity of verifying correct behaviour is truly a future challenge in dependable systems design. We know what we know, and to some extent, we know what we don't know - but we can't handle problems that we don't know that we don't know.



PRESENTER: Kristina Forsberg, Technical Specialist in Safety-Critical Systems, **SAAB**

Kristina Forsberg received a M.Sc. in Electrical Engineering 1998 and a PhD in Computer Engineering 2003 from Chalmers University of Technology. Since 2003, Kristina has worked as a Systems Engineer at Saab AB, specializing in the field of system safety – ranging from design to safety assessment of fault tolerant architectures. She has gained experience in product development, analysis, safety assessment and problem solving from both civil and military projects. Kristina has given several presentations, courses, seminars, and lectures, in both academia and industry, in System Safety, Integrated Modular Avionics, Fault-Tolerance and Certification. 2012-2015 Kristina also worked at Mälardalen University as Adjunct Professor

in Computer Science, Avionics. Her role was to develop new advanced courses related to the field along with supporting ongoing research in the field of safety critical engineering.

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TEKNIK

Vi publicerar artiklar med tekniskt djup inom allt från passiva komponenter till halvledarteknik, produktionssteknik och mätteknik.

Embeddedteknik är ett stående tema.

Teknikspecial



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Linus Sandström,
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KOMMENTAREN



Göte Fagerfjäll

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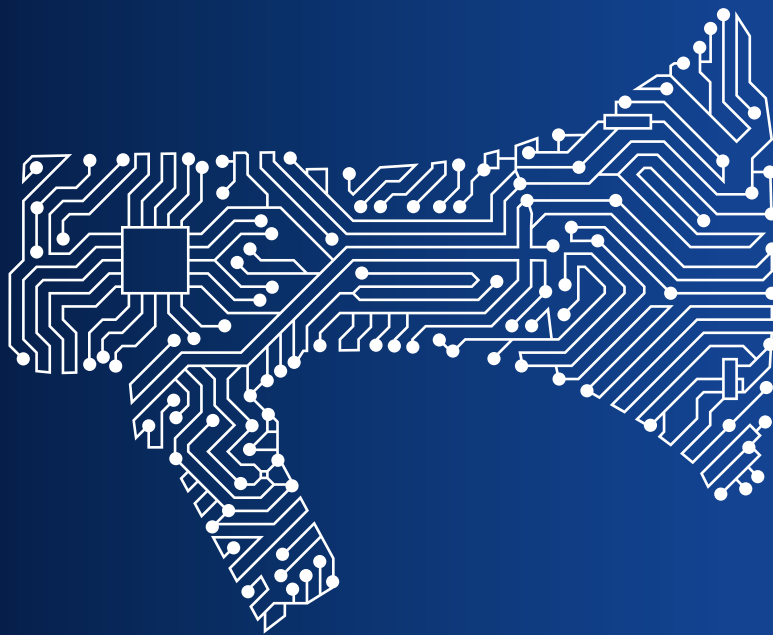
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Vi för ett påverkansarbete mot politiker och myndigheter för att lyfta branschens betydelse.



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**SVENSK
ELEKTRONIK**

DAY 1 • NOVEMBER 22, 2016

Nov 22	Track 1 M1	Track 2 M6	Track 3 M5	Track 4 Open Stage	Track 5 M3	Track 6 M4
09:15-10:00	Embedded systems in the automotive industry	Embedded security, components to system	Operating systems	Connected systems of embedded systems Hosted by:  Innovation for Growth	Workshop 1:	FPGA, low power design, processors and systems
	09:15 A flexible test solution to test embedded systems in multiple domains; The C-ITS and IoT use cases Presenter: Dr. György Réthy - Ericsson	09:15 Is IoT security a nightmare? Presenter: Dr. Shahid Raza - SICS Swedish ICT	09:15 Selecting an Embedded Operating System Presenter: Colin Walls - Mentor Graphics	09:15 The Prevas Simple Connect (PSC) Presenter: Daniel Rasmussen - Prevas	09:15 IoT applications made easy using KEIL MDK Presenter: Björn Skånberg, Nohau Solutions. 2,5 hrs. <i>Hands-on session. Limited Seating. Pre-registration necessary.</i>	9:15 SoC FPGA Hardware Security Issues and Resolutions Presenter: Stefano J. Zammattio - Intel PSG
10:00-10:20	KEYNOTE 1 – OPEN STAGE Only great developers make great IoT solutions - Presenter: Magnus Melander - SMSE, THINGS					
10:20-11:00	COFFEE & EXHIBITION					
11:00-12:00	Embedded systems in the automotive industry	Embedded software development and use	Embedded security, components to system	Connected systems of embedded systems	Workshop 1:	Embedded Software Development and use
	11:00 Software trends in automotive embedded systems Presenter: Marcus Nissemark - Green Hills Software	11:00 Is UML Dead? The New Future of Executable Modeling Presenter: Leon Starr - Model Integration	11:00 Security design and assessment of IoT products + Q&A Presenter: Cheng Jiang - Atsec	11:00 Software Ecosystems for the Internet of Things Presenter: Prof. Jakob Axelsson - SICS and Mälardalen University	11:00 IoT applications made easy using KEIL MDK <i>Continued</i>	11:00 Reducing the time, cost and risk of safety critical software development - Reusable Software Components Presenter: Mark Pitchford - Lynx Software Technologies
	11:30 Automotive ADAS feature saves lives with flexible HW (FPGA etc.) – practical implementation reference Presenter: Tryggve Mathiesen - Qamcom R&T AB	11:30 Lower your software development costs through code analysis Presenter: Martin Gisbert - IAR Systems	11:30 Code coverage for safety critical embedded systems Presenter: Olivier Casse - Verifysoft Technology	11:30 Bluetooth Technology Update Presenter: Martin Woolley - Bluetooth SIG		
12:00-12:15	OPENING SPEECH – OPEN STAGE Tomas Lagerberg - ABB					
12:15-13:20	LUNCH & EXHIBITION					
13:20-13:50	KEYNOTE 2 – M1 Digitalization – The Fourth Industrial Revolution!? Presenter: Tomas Lagerberg - ABB Corporate Research					
14:00-15:00	Embedded systems in the automotive industry Hosted by: 	Embedded software development and use	Embedded systems in the automotive industry	Connected systems of embedded systems	Workshop 2:	Workshop 5:
	14:00 Writing Reliable Code with MISRA C Presenter: Colin Walls - Mentor Graphics	14:00 C++11/14 features: what's new and why should we care Presenter: Stefano Cadario - ARM Compiler	14:00 Using a Separation Kernel to Protect against the Remote Exploitation of Unaltered Passenger Vehicles Presenter: Mark Pitchford - Lynx Software Technologies	14:00 Decompositional Safety Analysis of Automotive Software: From Functional Safety to Component Testing Presenter: Dr. Mohammad Mousavi - Halmstad University	14:00 IoT applications made easy using KEIL MDK Presenter: Björn Skånberg, Nohau Solutions. 2,5 hrs. <i>Hands-on session. Limited Seating. Pre-registration necessary.</i>	14:00 Code Coverage on μ -Controller Presenter: Sebastian Goetzinger - Verifysoft Technology <i>Max no of seats: 15, first come first served. Bring your own laptop</i>
		14:30 Verification at scale: Fitting static code analysis into Continuous Integration + Q&A Presenter: Steve Howard - Rogue Wave		14:30 Design Exploration Framework for In-node Processing in Smart Sensors Presenter: Dr. Muhammad Imran - Mittuniversitetet		

The program may be subject to change. Please check www.embeddedconference.se for updated and detailed version including abstracts.

Nov 22	Track 1 M1	Track 2 M6	Track 3 M5	Track 4 Open Stage	Track 5 M3	Track 6 M4
15:00-15:30	COFFEE & EXHIBITION					
15:30-17:00	Embedded software development and use	Embedded software development and use	FPGA, low power design, processors and systems	Connected systems of embedded systems	Workshop 2:	Software quality, testing and maintenance
	15:30 Implementing Continuous Delivery for embedded software product: best practices, tools, and challenges Presenter: Andrey Devyatkin - Praqma	15:30 Models to Code with no Mysterious Gaps Presenter: Leon Starr - Model Integration	15:30 Will Dark Silicon constrain the the data center business, will flexible HW (FPGA etc.) be the answer? Presenter: Tryggve Mathiesen - Qamcom R&T AB	15:30 The frequency spectrum, a limited natural resource and the most valuable asset for successful IoT deployments Presenter: Niclas Norlén - LumenRadio	15:30 IoT applications made easy using KEIL MDK <i>Continued.</i>	15:30 Advanced trouble-shooting of critical real-time systems Presenter: Bernd Hufmann - Ericsson
	16:15 Test Automation in Embedded Systems: Meeting the challenge Presenter: Jacob Lärfors, Emenda Nordic	16:15 The Mobile Application as User Interface in industrial IoT Solutions Presenter: Göran Krampe, Evothings	16:00 The Standards for Computer-On-Modules are evolving Presenter: Christian Eder - congatec	16:15 Learning From Mistakes in Testing Automotive Software Presenter: Dr. Mohammad Mousavi - Halmstad University		
			16:30 Semicustom - Partitioning industrial systems architecture with COTS-platforms and customdesign Presenter: Patrik Björklund - Tritech			
17:00-19:00	Industry Reception and presentation of the winners of the Swedish Embedded Award 2016					

DAY 2 • NOVEMBER 23, 2016

Nov 23	Track 1 M1	Track 2 M6	Track 3 M5	Track 4 Open Stage	Track 5 M3	Track 6 M4
09:15-10:00	Embedded software development and use Hosted by: ETAS	Operating systems	Software quality, testing and maintenance	FPGA, low power design, processors and systems	Workshop 3:	Software quality, testing and maintenance
	09:15 Common RTOS-related bugs – How avoid and detect? (Perc01) Presenter: Dr. Johan Kraft - Percepio	09:15 OE-lite Powering Industrial Linux! Presenter: Dr. Kim Højgaard-Hansen - Prevas	09:15 Self-testing in Embedded Systems Presenter: Colin Walls - Mentor Graphics	09:15 Reach highest Computing Performance Levels with Server-On-Modules Presenter: Christian Eder - congatec	09:15 Analog simulation using LTspice Presenter: Thomas Ginell, Linear Technology. <i>2 hrs. Hands-on session. Limited Seating. Pre-registration necessary.</i>	9:15 Improving Software Quality with Static Code Analysis Presenter: Fredrik Häbring - MathWorks
10:00-10:20	KEYNOTE 3 – OPEN STAGE					
	Securing the Embedded Internet of Things - Presenter: Nils Steen - Cisco Systems					
10:20-11:00	COFFEE & EXHIBITION					
11:00-12:00	Embedded systems in the automotive industry	Operating systems	Connected systems of embedded systems	Embedded security, components to system	Workshop 3:	Open source
	11:00 How safe does my code need to be? Presenter: Martin Gisbert - IAR Systems	11:00 The multicore challenge to embedded real-time systems Presenter: Patrik Strömblad - ENEA	11:00 Edge Technology - Key component for I(IOT) Presenter: Davor Tonic - HMS Industrial Networks	11:00 Open Source Solutions for Embedded System Presenter: Dominique Toupin - Ericsson	11:00 Analog simulation using LTspice <i>Continued.</i>	11:00 Technologies for Securing Telecom, NFV, and IoT platforms using Embedded Linux Presenter: Iisko Lappalainen - MontaVista Software
	11:30 Securing the connected car Presenter: Marcus Nissemark - Green Hills Software	11:30 Virtualization Impact on Embedded System Performance Presenter: Alexander Smirnov - ilbers	11:30 Deep learning in the field: from the cloud to industrial embedded systems Presenter: Michael Gielda, Antmicro	11:30 Does Open Hardware enhance or deteriorate quality? Presenter: Per Olof Hedekvist - SP		11:30 Trust - the Biggest Challenge for the Internet of Things Presenter: Anders Englund - Attentec

Nov 23	Track 1 M1	Track 2 M6	Track 3 M5	Track 4 Open Stage	Track 5 M3	Track 6 M4
12:00-12:15	Svensk Elektronik & Smartare Elektroniksystem – OPEN STAGE Presenters: Lena Norder, Svensk Elektronik and Magnus Svensson, Smartare Elektroniksystem					
12:15-13:20	LUNCH & EXHIBITION					
13:20-13:50	KEYNOTE 4 – M1 Knowledge – the true shortcut - Presenter: Kristina Forsberg - SAAB					
14:00-15:00	Embedded software development and use 14:00 Web-based university courses in software engineering for professional software developers Presenter: Prof. Hans Hansson, Mälardalen University	Operating systems and multicore 14:00 AUTOSAR Operating System Optimisations for Multicore Systems Presenter: Dr James Dickie - ETAS Ltd	Operating systems 14:00 Using Hypervisor-Technology for Safe and Secure IoT Devices Presenter: Mehmet Özer - SYSGO AG	Embedded software development and use 14:00 Power Management in Embedded Systems Presenter: Colin Walls - Mentor Graphics	Workshop 4 14:00 SeqZap for embedded systems test automation Presenter: Rasmus Toftdahl Olesen, CIM Software Testing <i>Hands-on session. Limited Seating. Pre-registration necessary.</i>	Software quality, testing and maintenance 14:00 Still debugging with printf? Presenter: Marc Khouzam - Ericsson
15:00-15:30	COFFEE & EXHIBITION					
15:30-17:00	Embedded software development and use 15:30 Qt for Device Creation Presenter: Laszlo Agocs - Qt	Open source 15:30 Building large-scale automation frameworks for Embedded projects Presenter: Dr. Oleg Nenashev - CloudBees Inc	Software quality, testing and maintenance 15:30 Consistent and repeatable metrics for managing testing activities Presenter: Michal Jablonski - Vector Software	Connected systems of embedded systems 15:30 Automating service management for 5G networks - Challenges & Initial Solutions Presenter: Dr. Rafia Inam - Ericsson	Workshop 4 15:30 SeqZap for embedded systems test automation <i>Continued</i>	15:30 Dynamically Proving Which Security Vulnerabilities Genuinely Exist Presenter: Mark Godfrey, Vector Software
	16:15 IoT – An Industrial (R)evolution? Presenter: Hans Christian Lønstad, Data Respons	16:15 Linux Perf for User Space Developers Presenter: Milian Wolff - KDAB	16:15 Fuzz testing for embedded, connected systems – Experiences and Benefits Presenter: Simon Elén – Tritech	16:00 From Idea to the Field : Industrial Open Hardware for IoT running Open Source software Presenters: Hans Andersson and Luigi Tondo - Acal BFi		

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EXHIBITOR LIST

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SWEDISH EMBEDDED AWARD 2016 – NOMINEES:

ENTERPRISE CATEGORY

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EVAM System	KTH	5
Poki	KTH	4
Sunwell	Högskolan i Halmstad	3
Last Mile Vehicle - Power Board Kit	Högskolan i Halmstad	2

Exhibitor list as per November 11 2016. The list may be subject to change. We accept no responsibility for possible changes or printing errors. The organizers have reserved the right to abbreviate company names when deemed necessary.

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Floor plan as per November 11, 2016. The plan may be subject to change. We accept no responsibility for possible changes or printing errors. The organizers have reserved the right to abbreviate company names when deemed necessary.

INFORMATION

DATE November 22-23 2016

VENUE Kistamässan, Stockholm, Sweden

ABOUT THE CONFERENCE All sessions are free of charge, but pre-registration on www.embeddedconference.se is mandatory. Please register and print out your badge in advance to save time onsite. Coffee and light lunch is free of charge to all visitors. The conference language is English. Please check signage onsite for the location of the different sessions.

ABOUT THE EXHIBITION Around 80 exhibitors from the embedded industry will showcase the latest news and products. They include top international suppliers, universities and the nominated companies and students of the Swedish Embedded Award. The exhibition is free of charge and no further registration than to the conference sessions is needed (please see above).

EXHIBITION OPENING TIMES

Tuesday, November 22:	09:00-17:00
Industry Reception & Presentation of the Swedish Embedded Award:	17:00-19:00
Wednesday, November 23:	09:00-16:00

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