

# **EXCERPTS FROMTHE PROGRAM:**

**INTERNET OF THINGS:** Two full days program covering the whole scenario of IoT. From FPGA and  $\mu$ -Controllers and connected IoT systems to infrastructure and security aspects. We will also look at IoT from a broader application perspective; such as the use of IoT for smart homes, an airbag-equipped helmet for biking and digitalized green plant walls. We also address the use of machine learning in the context of embedded systems.

**SOFTWARE DEVELOPMENT:** Agile methods. Modeling and compiler technology. Software security, test and verification. Operating systems. Open source development for embedded applications. EMC design and testing. Wireless communications.

**IN-DEPTH TUTORIALS:** Wireless communication including 4G, 5G as well as Bluetooth long range loT networks, code coverage and testing methodologies, design of microcontrollers, and more.

### **HANDS-ON WORKSHOPS:**

- · Cortex-M with Nohau Solutions
- Code Coverage on μ-Controller with Verifysoft Technology
- · Automated system testing with CIM Software Testing
- Microcontroller design, Arrow Electronics

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# **KEYNOTE SPEAKERS:**



**5G – Connecting Everything**Magnus Frodigh
Ericsson Research



Why the Embedded
World needs Open Source
Communities
Philippe Krief
Eclipse Foundation Europe



Vulnerability in the infrastructure "If a country is being hacked"
Richard Oehme
PwC Sweden/Säkerhets- och försvarsföretagen (SOFF)



The state of security: Is lasting security for the IoT achievable? Haydn Povey SecureThingz

NOVEMBER 6-7, 2018 KISTAMÄSSAN • STOCKHOLM www.embeddedconference.se

embedded conference scandinavia



Over the last few years **Embedded Conference Scandinavia**, the internationally renowned meeting place for professionals in the field of embedded technology, has been growing and is now considered the largest embedded conference in Europe. ECS has maintained its successful concept of a compact exhibition, a world-class conference and popular social activities and now draws some 2,000 participants. With visitors and exhibitors from more than 25 countries around the world, Embedded Conference Scandinavia is now also more international than ever.

At the ECS exhibition around 80 companies and organizations will be presenting all the new products, services and trends covering all the needs of the industry. We will as always offer an internationally top ranked conference with more than 70 seminars, presentations and workshops as well as reputable keynote speakers and of course the presentation of this year's winners of the Swedish Embedded Award.

ECS is truly a not to miss event! Welcome to join us November 6-7!

### Svensk Elektronik/ The Swedish Electronics Trade Association



Lena Norder CEO



Mikael Joki Chairman



Mats Andersson Chairman **Embedded Section** 

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Svensk Elektronik provides an exclusive network of knowledge, inspiration and business where you meet new partners and customers. We voice the opinion of the electronics industry.

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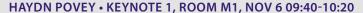
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# **KEYNOTE SPEAKERS**



# The state of security: Is lasting security for the IoT achievable?

Security remains one of the industry's hottest topics. Data breaches affect millions. Cars and pacemakers have been hacked. Baby and home monitors weaponized and used in attacks. The threats are real. While legislation is being rolled out and GDPR has taken effect to mandate greater protection, the stories of hacking, theft and counterfeiting still persist...and bad actors only keep coming. There are substantial discussions, and confusion, around evolving device security covering software, hardware, manufacturing, architectures, platforms, foundations, root of trust, and chains of trust, but companies require simple and actionable solutions. The industry needs to come together to deliver trust from design through manufacturing and beyond in cost-effective form factors. Given the bewildering array of architecture frameworks, best practices and ecosystems, and hundreds of companies offering some sort of security solution, has there really been an impact to deliver a secure IoT or is such a myriad of solutions only muddying the waters for the industry? In this keynote Haydn Povey, a globally recognized leader in IoT security, will cut through the noise and discuss whether the industry truly has moved the needle when it comes to more secure devices and a secure IoT. Haydn will share the latest in best practices to help provide a framework to drive security within the system, and offer considerations for decisions made in the development, deployment and delivery of a project that may affect a product during its lifecycle.



### PRESENTER: Haydn Povey, Founder and CEO, Secure Thingz

Haydn is the Founder & CEO of Secure Thingz, a company focused on developing and delivering next-generation security technology for the IoT and other connected systems. Haydn also currently sits on the Executive Steering Board of the IoT Security Foundation. Haydn has been in senior management at leading global technology companies for over 20 years, including 10 years in senior marketing and business development roles at Arm. While at Arm, Haydn most recently looked after the company's strategy and product roadmaps for security within IoT and M2M marketplaces, and he led the development and introduction of the Cortex-M microprocessor family.

# MAGNUS FRODIGH • KEYNOTE 2, ROOM M1, NOV 6 13:30-14:10 **5G – Connecting Everything**

Digitalization is all around us and anything that benefits from being connected, will be connected. Ericsson forecasts there will be 3.5 billion connected devices using cellular technologies, five years from now. New 4G and 5G technologies with wide-area, global reach are suitable for connecting anything from low-power devices with low data speeds and infrequent communication needs, to devices that need megabit transmissions, to ultra-reliable low-latency connections suitable for mission critical applications. A major difference with 5G compared with previous generations is that it is very use-case driven and it will be more generically applicable for industrial applications. An important technology is edge computing where generic computing resources – without electrical power restraints – can be offered close to the devices, thus enabling off-loading of computational tasks from the devices to a machine just a few milliseconds away.



### PRESENTER: Magnus Frodigh, Acting Head, Ericsson Research

Prior to taking up this position, Magnus was Research Area Director for Network Architecture and Protocols at Ericsson Research, he was responsible for research in network architecture and protocols covering radio networks, transport networks and core networks including network management. Magnus joined Ericsson in 1994 and has since held various key senior positions within Ericsson's Research & Development and Product Management focusing on 2G, 3G, 4G and 5G technologies.

### RICHARD OEHME • KEYNOTE 3, ROOM M1, NOV 7 09:40-10:20

# Vulnerability in the infrastructure "If a country is being hacked"

A large-scale IT incident could shut down large parts of critical infrastructure. Our society today depends on functioning IT system; it covers everything from food supply, transport and energy supply to healthcare, first responders and police or military operations. IT systems with high operational reliability and strong protection against external attacks are therefore of great importance to the security of society and for the ability to handle different crises. Embedded system is also a vital part of this critical infrastructure.



**PRESENTER:** Richard Oehme, Director Cyber Security and CIP PwC Sweden/Ordförande Säkerhets- och försvarsföretagen (SOFF) cybergrupp Richard Oehme is Director Cyber security and Critical infrastructure Protection at PwC's Sweden business area Cyber security, risk and resilience. He has decades of experience in Security policy, Crisis preparedness, Civil Defence, Cyber security, Intelligence operations and in the protection of Critical infrastructure as well as years of experience regarding national policymaking. Over the years this has given him a unique insight in national and international security policy and how to build sustainable security solutions in a changing world.

# PHILIPPE KRIEF • KEYNOTE 4, ROOM M1, NOV 7 13:30-14:10

# Why the Embedded World needs Open Source Communities

Automation to Transportation, whose requirements include managing features such as sensors, in-vehicle infotainment and robotic applications. And, similar to the Internet of Things, each domain builds specific platforms and standards, creating essentially an 'Internet of Silos'. In this context, we will describe how Open Source communities are able to break down silos towards a more efficient development environment. We'll describe the best practices that allow these communities to participate in open collaboration and open innovation while achieving their individual organizational goals. To conclude we'll present two research projects, RobMoSys and Appstacle, where the Eclipse Foundation participates and describe how these projects are breaking down silos in their systems engineering projects.



**PRESENTER:** Philippe Krief, PhD., Director Research Relations, Eclipse Foundation Europe

Philippe Krief is the Research Relations Director of the Eclipse Foundation Europe. He received his PhD in Computer Science from University Paris VIII, France in 1990. Before joining the Eclipse Foundation staff, he was Senior Architect on Embedded System developments, Eclipse committer, Agile evangelist on Jazz, the Rational Collaborative platform, and R&D Development Manager for IBM. He has a passion for Eclipse since its beginning, early 2000, when he was involved in the early versions based on VisualAge Micro Edition, which supported development of embedded Java applications and cross system development.

| Track 1 Room M1  Open source  9:10 Example application: joining embedded lof,   | Track 2 Room M6 Wireless communication   | Track 3 Room M2 Embedded systems in smart homes   | Track 4<br>Open stage  | Track 5<br>Room M5  | Track 6<br>Room M3  | Track 7<br>Room M4   |
|---|--|---|--|---|---|--|
| 9:10 Example<br>application: joining  | communication  | •   |  |   | Nooili M3   | I NOOIII M T   |
| application: joining  | 0.10 Value creation at   | Sind Chomes   | Embedded software development and use  | Software quality,<br>testing and<br>maintenance   | Workshop  | Wireless<br>Communications   |
| industrial I/O, cloud,<br>AI & historian in a<br>suitcase<br>Presenter:<br>Nils-Erik Thorén, Prevas                             | the networks Edge<br>Presenter: Niclas Norlén,<br>LumenRadio   | 9:10 Technology Enabling New Sensing Capabilities in the IoT Presenter: Carsten Steffensen, Caster Communications   | 9:10 Agile Development of Embedded Systems for Functional Safety - a Contradiction in Terms? Presenter: Michael Jastram, Jama Software   | 9:10 Code Coverage<br>on CUDA<br>Presenter: Presenter:<br>Sebastian Goetzinger,<br>Verifysoft Technology  | 9:10 MDK workshop: Develop loT application with Cortex-M Presenter: Kristoffer Martinsson, Nohau Solutions Max no of participants: 20 | 9:10 Accelerating<br>a Smart and<br>Interconnected World<br>Presenter:<br>Stefano Zammattio  |
| KEYNOTE 1, ROOM M1  |  |   |  |   |   |  |
| The state of security: Is   | lasting security for the lo  | oT achievable? - Haydn Po   | vey, SecureThingz  |   |   |  |
| COFFEE & EXHIBITION   |  |   |  |   |   | ,  |
| Embedded security   | Embedded software development and use  | FPGA, multicore   | Wireless<br>Communications   | Operating Systems   | Workshop  | Wireless<br>Communications   |
| 11:00 Improving<br>safety of cyber-<br>physical systems by<br>improving security<br>Presenter: Niheer<br>Patel, RTI             | 11:00 Towards Next<br>Generation<br>Embedded Systems<br>Presenter: Zain UI-Abdin,<br>Halmstad University   | 11:00 Designing Compact Convolutional Neural Network for Embedded Stereo- Vision Systems Presenter: Mohammad Loni, Mälardalen University  | 11:00 How to stay<br>connected to 4G/5G-<br>LPWA/NB-IoT for 10<br>years or more<br>Presenter:<br>Hans Andersson, Acal BFi<br>(30 min)  | 11:00 Unleashing<br>multi-core in real-<br>time time systems<br>Presenter: Daniel Morris,<br>eCosCentric  | 11:00 MDK workshop:<br>Develop IoT<br>application with<br>Cortex-M<br>Contd.  | 11:00 Build your<br>own Long Range IoT<br>network<br>Presenter:<br>Stefano Zammattio<br>(60 min)   |
| 11:30 Secure<br>Communication with<br>TLS using wolfSSL<br>Presenter: Chris Conlon,<br>wolfSSL                                  | 11:30 A Design-by-<br>Contract Approach<br>to Distributed<br>Embedded Software<br>Development<br>Presenter: Yuri Durodié,<br>Siemens PLM   | 11:30 Hardware and<br>Software Co-Design<br>for Motor Control<br>Applications<br>Presenter:<br>Jonas Rutström,<br>MathWorks   |  | 11:30 Balancing high<br>performance<br>embedded systems<br>with real time and<br>functional safety<br>Presenter:<br>Marcus Nissemark,<br>Green Hills Software |   |  |
| OPENING SPEECH  |  |   |  |   |   |  |
| Magnus Frodigh, Ericss  | on Research  |   |  |   |   |  |
| LUNCH & EXHIBITION  |  |   |  |   |   |  |
| KEYNOTE 2, ROOM M1  |  |   |  |   |   |  |
| 5G – Connecting Everyt  | hing, Magnus Frodigh, Eı   | ricsson Research  |  |   |   |  |
| Machine learning,<br>development and use  | Wireless communication   | Embedded security, software quality   | Embedded software development and use  | Low power design,<br>processors and<br>systems  | Workshop  | Workshop   |
| 14:20 A platform for<br>efficient and dynamic<br>people recognition on<br>edge devices<br>Presenter: Luca Ruzzola,<br>Agile Lab | 14:20 OMA Lightweight M2M – solve your IoT networks congestion issues with a unified and elegant approach Presenter: Krzysztof Berezowski, Thaumatec   | 14:20 Finding Security<br>Issues via Dynamic<br>Testing<br>Presenter: Jason Masters,<br>Vector Software   | 14.20 Enabling<br>embedded devices for<br>industrial Internet of<br>things (IIoT)<br>Eric Faure, Mentor,<br>a Siemens Business   | 14:20 Internet of<br>Things: back to the<br>edge<br>Presenter:<br>Vladimir Marchenko,<br>ARM  | 14:20 Code Coverage<br>on μ-Controller<br>Presenter: Sebastian<br>Goetzinger, Verifysoft<br>Technology<br>Max no of participants:     | 14:20 Introduction<br>to automated system<br>testing<br>Presenter:<br>Jeppe Badstue, CIM<br>Software Testing<br>Max no of participants:<br>20  |
| 14:50 Optimized Deep<br>Learning on FPGAs<br>Presenter: Yasser Bajwa,<br>Grazper  | 14:50 SDR with Al<br>algorithms in<br>practical applications<br>Presenter: Iurii Voitenko,<br>Wireless P2P<br>Technologies   | 14:50 Static analysis<br>for source and binary:<br>Improving security<br>while reducing<br>time-to-market<br>Presenter:<br>Joakim Nilsson,<br>Nohau Solutions   | 14.50 Bug-killing<br>using best-practice<br>development<br>techniques<br>Presenter: Mark<br>Richardson, LDRA   | 14:50 Design of<br>PillCam RF-ASIC for<br>endoscopy<br>Presenter: Marcus Movér,<br>ShortLink  |   |  |
|   | KEYNOTE 1, ROOM M1 The state of security: Is COFFEE & EXHIBITION Embedded security  11:00 Improving safety of cyber- physical systems by improving security Presenter: Niheer Patel, RTI  11:30 Secure Communication with TLS using wolfSSL Presenter: Chris Conlon, wolfSSL  OPENING SPEECH Magnus Frodigh, Ericsse LUNCH & EXHIBITION KEYNOTE 2, ROOM M1 5G — Connecting Everyt Machine learning, development and use  14:20 A platform for efficient and dynamic people recognition on edge devices Presenter: Luca Ruzzola, Agile Lab  14:50 Optimized Deep Learning on FPGAs Presenter: Yasser Bajwa, | KEYNOTE 1, ROOM M1  The state of security: Is lasting security for the local content of the state of security: Is lasting security for the local content of the state of security: Is lasting security for the local content of the state of security and use in the state of security physical systems by improving security presenter: Niheer Patel, RTI  11:30 Secure Communication with TLS using wolfSSL Presenter: Chris Conlon, wolfSSL Presenter: Chris Conlon, wolfSSL  OPENING SPEECH  Magnus Frodigh, Ericsson Research  LUNCH & EXHIBITION  KEYNOTE 2, ROOM M1  5G — Connecting Everything, Magnus Frodigh, Endewelopment and use  14:20 A platform for efficient and dynamic people recognition on edge devices Presenter: Luca Ruzzola, Agile Lab  14:50 Optimized Deep Learning on FPGAs Presenter: Yasser Bajwa, Grazper  KEYNOTE 2, ROSH M1  14:50 SDR with Al algorithms in practical applications Presenter: lurii Voitenko, Wireless P2P Technologies | KEYNOTE 1, ROOM M1  The state of security: Is lasting security for the IoT achievable? - Haydn Po COFFEE & EXHIBITION  Embedded security  In the state of security: Is lasting security for the IoT achievable? - Haydn Po COFFEE & EXHIBITION  Embedded Security In the state of security safety of cyber- physical systems by improving security Presenter: Niheer Patel, RTI  In the state of security safety of cyber- physical systems by improving security Presenter: Niheer Patel, RTI  In the state of security safety of cyber- Presenter: Niheer Patel, RTI  In the state of security safety of the IoT achievable? - Haydn Po Compact Comvolutional Neural Network for Embedded Setreo- Vision Systems Presenter: Mohammad Loni, Mälardalen University  In 1:30 A Design-by- Contract Approach to Distributed Embedded Software Development Presenter: Yuri Durodié, Siemens PLM  In the lot of the Int of Compact Compact In the state of Compact | The state of security: Is lasting security for the IoT achievable? - Haydn Povey, SecureThingz  | The state of security: Is lasting security for the IoT achievable? - Haydn Povey, SecureThing2  | The state of security: Is lasting security for the IoT achievable? - Haydin Povey, SecureThings   The state of security: Is lasting security for the IoT achievable? - Haydin Povey, SecureThings   The state of Security: Is lasting security for the IoT achievable? - Haydin Povey, SecureThings   The state of Security: Is lasting security for the IoT achievable? - Haydin Povey, SecureThings   The state of Security: Interest of I |

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# **DAY 1 • NOVEMBER 6, 2018**

| Nov 6       | Track 1<br>Room M1   | Track 2<br>Room M6  | Track 3<br>Room M2  | Track 4<br>Open stage  | Track 5<br>Room M5   | Track 6<br>Room M3                               | Track 7<br>Room M4                                    |
|-------------|--|---|---|--|--|--|---|
| 16:00-17:00 | Embedded product development   | Wireless<br>communication   | Embedded software development and use   | Embedded<br>hardware   | Software quality,<br>testing and<br>maintenance  | Workshop   | Workshop  |
|             | 16:00 The journey<br>to make a beloved<br>product even better<br>and safer<br>Presenter:<br>André Floreby, Prevas<br>Amin Malalla, Hövding<br>Peter Floderus, Hövding<br>(30-60 min) | 16:00 Challenges<br>and Solutions for 5G<br>Testing<br>Presenter: Mike Bartley,<br>Test and Verification<br>Solutions | 16:00 Ramifications of the relational database in automotive and other real-time systems Presenter: Karl-König Königsson, Mimer Information Technology                            | 16.00 Power Management in Embedded Systems Presenter: Colin Walls, Mentor (30 min) | 16.00 Debug driven<br>development<br>Presenter: Marcus<br>Nissemark, Green Hills<br>Software   | 16:00 Code Coverage<br>on μ-Controller<br>Contd. | 16:00 Introduction to automated system testing Contd. |
|             |  | 16.30 Future-Proofin<br>your connectivity<br>solution<br>Presenter: Niclas Norlén,<br>LumenRadio                      | 16:30 Electronic shelf<br>labels – Software<br>optimization for low<br>power modules with<br>limited resources<br>Presenter:<br>Milan Konjikusic,<br>Comtrade Digital<br>Services |  | 16:30 The Quest for<br>Zero Defects:<br>Improving the<br>Quality of Embedded<br>Software<br>Presenter: Fredrik<br>Håbring, MathWorks |  |   |
| 17:00-19:00 | Industry Reception and of the Swedish Embedo   | l presentation of the win<br>led Award 2018   | ners  |  |  | - B  |   |

# DAV 2 NOVEMBER 7 2019

|             |  |   | DAY 2 • NO  | /EMBER 7, 2  | 018   |  |   |
|-------------|--|---|---|--|---|--|---|
| Nov 7       | Track 1<br>Room M1   | Track 2<br>Room M6  | Track 3<br>Room M2  | Track 4<br>Open stage  | Track 5<br>Room M5  | Track 6<br>Room M3   | Track 7<br>Room M4  |
| 09:10-09:40 | Embedded security  | Embedded systems for the industry   | Embedded software development and use   | Software quality,<br>testing and<br>maintenance  | loT case study  | Workshop   | Operating systems   |
|             | 9:10 Secure your next<br>IoT product<br>Presenter:<br>David Källberg, IAR<br>Systems                     | 9:10 Why Commercial<br>Linux?<br>Presenter:<br>lisko Lappalainen,<br>MontaVista                               | 09:10 Tools to create<br>software for<br>industrial edge<br>devices<br>Presenter: Aurindam<br>Jana, The Qt Company  | 9:10 Choosing better<br>software properties<br>and evaluation<br>methods in software<br>development<br>Presenter: Séverine<br>Sentilles , Mälardalen<br>University | 9:10 Digitalization<br>of Green Plant Walls<br>with Embedded<br>Systems<br>Presenter: Yu Liu,<br>Linköping University | 9:10 MDK workshop:<br>Develop IoT applica-<br>tion with Cortex-M<br>Presenter:<br>Kristoffer Martinsson,<br>Nohau Solutions<br>Max no of participants:<br>20 | 9.10 Operating<br>Systems for<br>Embedded<br>Applications<br>Presenter: Colin Walls,<br>Mentor                                |
| 09:40-10:20 | KEYNOTE 3, ROOM M1   |   |   |  |   |  |   |
|             | Vulnerability in the inf   | rastructure "If a country i   | s being hacked" - Richard   | d Oehme, PwC Sweden/Sa   | äkerhets- och försvarsför   | etagen (SOFF)  |   |
| 10:20-11:00 | COFFEE & EXHIBITION  |   |   |  |   |  |   |
| 11:00-12:00 | Safety in embedded software development  | Wireless<br>communication   | Embedded software development and use   | Embedded security  | Embedded programming and testing  | Workshop   | EMC in embedded systems   |
|             | 11:00 Connecting Safety Certifiable Open Architectures for Unmanned Systems Presenter: Niheer Patel, RTI | 11:00 Bluetooth Mesh<br>and the Zephyr RTOS<br>Presenter:<br>Martin Woolley,<br>Bluetooth SIG<br>(30-60 mins) | 11:00 Embedded<br>IIoT platforms<br>– the right path to<br>Digitalization?<br>Presenter: Norbert<br>Hauser, Kontron | 11:00 Leveraging<br>Embedded Security as<br>the Key to Industrial<br>Economy Renaissance<br>Presenter:<br>Stefan Bamberg,<br>WIBU-Systems                          | 11:00 Implementing<br>a unit testing practice<br>at scale<br>Presenter: Mirosław<br>Zielinski, Parasoft               | 11:00 MDK workshop:<br>Develop IoT<br>application with<br>Cortex-M<br>Contd.   | 11:00 EMC Challenges<br>and Solutions in<br>Embedded Systems<br>Presenter:<br>Paul Worthington,<br>Analog Devices<br>(60 min) |
|             | 11:30 Why functional<br>safety in embedded<br>systems?<br>Presenter:<br>Rafael Taubinger,<br>IAR Systems |   | 11:30 Optimize workload consolidation and accelerate the IT / OT convergence Presenter: Bruno Rouchouse, Wind River | 11.30 A holistic and<br>pragmatic approach<br>to embedded system<br>security<br>Presenter:<br>Mark Richardson, LDRA  | 11.30<br>C – The Language of<br>Embedded<br>Presenter: Colin Walls,<br>Mentor   |  |   |

|             |   |   | DAT Z • NO   | /EMBER 7, 2   | 1  |  |  |
|-------------|---|---|--|---|--|--|--|
| Nov 7       | Track 1<br>Room M1  | Track 2<br>Room M6  | Track 3<br>Room M2   | Track 4<br>Open stage   | Track 5<br>Poom M5   | Track 6<br>Room M3   | Track 7<br>Room M4   |
| 2:15-12:30  | Svensk Elektronik & Sm  | artare Elektroniksystem   | , Open Stage   |   |  |  |  |
| 2:30-13:30  | LUNCH & EXHIBITI  | ON  |  |   |  |  |  |
| 13:30-14:10 | KEYNOTE 4, ROOM M1  |   |  |   |  |  |  |
|             | Why the Embedded Wo   | rld needs Open Source Co  | ommunities - Philippe Kri  | ief, Eclipse Foundation E   | ırope  |  |  |
| 14:20-15:20 | Embedded software development and use   | Software quality,<br>testing and<br>maintenance   | Embedded security  | Safety Certification  | Open Source  | Workshop   | Software quality,<br>testing and<br>maintenance  |
|             | 14:20 Agile Internet-<br>of-Things System<br>Development using<br>Simulation at<br>Multiple Abstraction<br>Levels<br>Presenter: Jakob<br>Engblom, Intel<br>(30 min) | 14:20 Design verification of embedded software using high-level debugging Presenter: Elena Strabykina and Mattias Mohlin, HCL Technologies  | 14:20 Test<br>automation and<br>security go hand in<br>hand<br>Presenter: Harri Susi<br>and Mikko Lindström,<br>Etteplan<br>(30-60 mins) | 14:20 Best Practices<br>and Strategies for<br>Navigating Safety<br>Certification<br>Challenges in UAS<br>Platforms<br>Presenter: Niheer<br>Patel, RTI<br>(30 min) | 14:20 Automating Test<br>Maintenance as Code<br>and Requirements<br>Change<br>Presenter: Matt Davis, QA<br>Systems | 14:20 Design your<br>own microcontroller,<br>easily!<br>Presenter:<br>Nikolay Rognlien,<br>Arrow Electronics | 14:20 Code coverage<br>for small safety-<br>critical embedded<br>targets<br>Presenter:<br>Sebastian Goetzinger,<br>Verifysoft Technology<br>(30 min) |
|             |   | 14.50 Self-testing in<br>Embedded Systems<br>Presenter: Colin Walls,<br>Mentor  |  |   | 14:50 Zero-defect<br>software – myth or<br>reality?<br>Presenter: Jason Masters,<br>Vector Software                |  |  |
| 15:20-16:00 | COFFEE & EXHIBITION   |   |  |   |  |  |  |
| 16:00-16:30 | Software quality,<br>testing and mainte-<br>nance   | Embedded security   | Embedded security  |   |  | Workshop   |  |
|             | 16:00 Automated Test<br>System for Automotive<br>Embedded Device<br>Presenter:<br>Miloje Zecevic, Comtrade<br>Digital Services                                      | 16:00 Hypervisors: Making the case for separating and isolating safety- critical components from non-safety critical functional domains on a single compute platform Presenter: Kevin Heawood | 16.00 Writing Reliable<br>Code with MISRA C<br>Presenter: Colin Walls,<br>Mentor   |   |  | 16.00 Design your<br>own microcontroller,<br>easily!<br>Contd.   |  |

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# **EXHIBITOR LIST**

| AAEON   |
|---|
| ACAL BFi  |
| Advantech   |
| Analog Devices                                    |
| Avnet Integrated                                  |
| Avnet Silica                                      |
| Broadband - a Codico Company                      |
| C.N. Rood   |
| congatec  |
| Canonical   |
| Codiax  |
| Data Modul  |
| Data Respons                                      |
| EG Electronics                                    |
| EISLAB, Luleå University of Technology            |
| EK Power Solutions                                |
| Elektronik i Norden                               |
| Ellipse-Tronic                                    |
| Embedded Artists                                  |
| Embedded Systems Profile at Mälardalen University |
| Eskilstuna ElektronikPartner                      |
| Etteplan  |
| European Portwell Technology                      |
| Farnell element14                                 |
| Future Electronics                                |
| Göteborg Business Region ICT                      |
| Halmstad University - CERES                       |
| Hectronic   |
| IAR Systems                                       |
| Imsys   |
| Kontron   |
| KTH Formula Student                               |
| KTH ICES  |
| LDRA  |
| Martinsson Elektronik                             |
| Mentor, A Siemens Business                        |
| MontaVista Software                               |
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Multicomponent Neousys Technology Nohau Solutions NOTE Orcam Systems Phoenix Contact Prevas Qt Realtime Embedded Real-Time Innovations RISE Acreo - Printed Electronics Arena Rutronik Scania CV Sensor ECS SER – Svenska Elektro- och Dataingenjörers Riksförening ShortLink Siemens PLM Software Smartare Elektroniksystem Svensk Elektronik - The Swedish Electronics Trade Association T2 Data Toshiba Electronics Triacon Scientific Tritech Solutions Vector Software Verifysoft Technology WIBU-SYSTEMS wolfSSL Würth Elektronik

Exhibitor list as per October 18. 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.

# **EMBEDDED CONFERENCE SCANDINAVIA 2018**

DATE November 6-7, 2018

VENUE Kistamässan, Stockholm, Sweden

### **ABOUTTHE CONFERENCE**

All sessions are free of charge, but pre-registration for the event on 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.

### **ABOUTTHE 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 is needed (please see above).

### **EXHIBITION OPENINGTIMES**

Tuesday, November 6: 08.45-17.00

Industry Reception & Awards Ceremony, Swedish Embedded Award 17.00-19.00

Wednesday, November 7: 08.45-16.30

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