



EtherCAT

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## Invitation EtherCAT Seminar Series Norway 2022



September 19, 2022	Stavanger
September 20, 2022	Grimstad
September 21, 2022	Porsgrunn
September 22, 2022	Oslo
September 23, 2022	Raufoss

Organized by:



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Register online today – it's free!

[www.ethercat.org/2022/norway](http://www.ethercat.org/2022/norway)

### What is EtherCAT?

- EtherCAT (Ethernet for Control Automation Technology) is the fastest Industrial Ethernet solution that provides industry leading performance, flexibility and cost advantages

### Who should attend?

- This half-day seminar specifically addresses students, device manufacturers, system integrators, automation professionals, product managers, as well as decisions makers to learn about EtherCAT and Industrial Ethernet, but also the latest trends like Industrie 4.0, IoT and EtherCAT G

### Why attend?

- Learn about the benefits and the challenges of Industrial Ethernet
- Explore and understand EtherCAT technology
- Talk with EtherCAT experts face-to-face, and see how EtherCAT can accelerate your application
- Discover the future of EtherCAT through gigabit performance and the integration of several communication technologies
- Discover how EtherCAT could generate a performance and competitive advantage

### About ETG

- EtherCAT Technology Group (ETG) - the world's largest Industrial Ethernet Fieldbus organization with over 6,800 member companies from 69 countries supporting EtherCAT technology

### Contact

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### Sponsor

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## Timetable | Locations



### Timetable

- Registration on site: 8:00
- Start of seminar: 8:30
- End of seminar: 12:00

### Locations



**Monday, September 19**  
University of Stavanger  
Kjølv Egeland's hus  
Kristine Bonnevis vei 22  
4021 Stavanger



**Tuesday, September 20**  
University of Agder/ Top Research  
Centre Mechatronics (TRCM)  
Jon Lilletuns vei 9  
4879 Grimstad



**Wednesday, September 21**  
University of South-Eastern Norway  
Campus Porsgrunn,  
Bygg A, rom 199  
Kjølnes ring 56  
3918 Porsgrunn



**Thursday, September 22**  
Rebel  
Universitetsgaten 2  
0164 Oslo



**Friday, September 23**  
NCE Manufacturing  
Bygning 5  
Raufoss Industripark  
Kortosvegen  
2830 Raufoss

## Speaker | Agenda



### Speaker



**Oliver Fels**  
Technology Marketing  
EtherCAT Technology Group

Presentations will be held in English language.  
Order and titles of presentations may vary.

**Private sessions:** Feel free to use the chance to meet the EtherCAT expert at a private meeting after the seminar (request via online registration form).

### Agenda

- **EtherCAT technology highlights and benefits: From Ethernet to EtherCAT**  
Removing the bottlenecks with EtherCAT: processing on the fly! A primer on EtherCAT, how it works, key functional principles, integrated safety and performance data compared to the competition.
- **Installation and diagnosis: How to build and maintain an EtherCAT network**  
A overview of the outstanding diagnostic features of the EtherCAT master and slaves, and how they can be used in systems for maximizing uptime, minimizing downtime, and assisting with troubleshooting a network.
- **Get it done: EtherCAT master and slave implementation**  
Learn how to start with an EtherCAT master or slave device. We will look at the requirements, conformity and certification. Have a head start knowing the right tools and documents, including a live demonstration!
- **EtherCAT and cybersecurity**  
A view on the robustness of EtherCAT against cyber threats.
- **EtherCAT applications**  
See various examples of successful EtherCAT applications, like in robotics, marine, food processing, or oil & gas industry.
- **What's next? EtherCAT G + G10**  
EtherCAT G offers the next performance level for high-performance machines and data-intensive applications. Parallel processing of segments enables significantly reduced propagation delay times with full EtherCAT compatibility and integration of 100 MBit/s EtherCAT devices.



[www.ethercat.org](http://www.ethercat.org)

The EtherCAT Technology Group keeps EtherCAT technology open for all potential users. It brings EtherCAT device manufacturers, technology providers, and users together to further the technology. It provides multiple Technical Working Groups where experts carefully work on various specific aspects of EtherCAT. All of these activities are focused on one common goal: keeping EtherCAT stable and interoperable.

### BECKHOFF

[www.beckhoff.no](http://www.beckhoff.no)

Beckhoff implements open automation systems based on PC Control technology. The product range covers Industrial PCs, I/O and Fieldbus Components, Drive Technology and automation software. Products that can be used as separate components or integrated into a complete and seamless control system are available for all industries. The Beckhoff "New Automation Technology" philosophy represents universal and open control and automation solutions that are used worldwide in a wide variety of different applications, ranging from CNC-controlled machine tools to intelligent building automation.

