



**The vision industry
grows powerfully
every year**

Johan Kastensson, OEM Automatic

PHOTONEO 3D-SCANNERS

filling the gap in Mabema's product portfolio





JOHAN KASTENSSON

FAMILY Partner: Josefin. Children: Thure 1 ½ years old and a new addition due this summer. **LIVES** In Eksjö. **DOES** Sales Manager Imaging & Vision. **CURRENT PROJECT** The future's 3d-solutions **ROLE MODEL** Johan Olsson, two time Olympic champion, cross country skier Johan is my inspiration as he is someone who believes in himself, perseveres and successfully achieved Olympic recognition. **MERITS** Achieved 548th place in the cross country ski race, Vasaloppet 2019.

HI THERE

Johan Kastensson

Tell us more about how you work!

Within the Image Analysis & Vision business area we work closely with our customers to conduct many tests and 'proof of concept' operations. We can mimic the customer's environment safely to demonstrate the operation and functionality of any product before it is used within the 'live' application. We pride ourselves on this service and gain from the benefit of a close relationship with our suppliers so that we can offer the highest quality training, research and technology. It always begins with the customer! Together we find the best solution for their problems.

How does the future look for the industry?

The vision industry has been growing exponentially year on year. In 2018 OEM Automatic employed additional staff to work with specialist projects thereby strengthening our organisation. Products are getting smarter and more advanced meaning the industry is growing on all fronts. Vision is better established today than it was a few years ago and is no longer known as "scary" or expensive. Time costs money and automation can lead to savings. There are many solutions appearing right now that build on Deep Learning, Machine Learning and AI. This means that, soon, we won't need to

program cameras to be able to use them; it will happen automatically.

Are robots going to take over?

Ha ha! No they won't take over. They are going to help us improve and make day-to-day life easier both at work and home. The technology is being developed very fast, it's awesome!

What kind of demand do you see from your customers?

The need for automation is growing and Vision has become more accessible. In many cases we find solutions to problems early, and in that way we help our customers save. Besides industrial automation we also work within the ITS, Medical and Out of Factory sectors. Out of Factory solutions is a broad and very exciting area being anything from facial analysis/recognition to self-driving cars or streaming video.

What are you focusing on now?

We work a lot with 3D solutions within all different areas. Stereo vision, time of flight, laser triangulation and structured light are a few of the technologies. The Slovakian company Photoneo is one supplier who has recently launched exciting solutions. They have developed a 3D

camera which can take pictures of objects that move very fast with millimetre precision. For example, a conveyor; the unique technology won the VISION Award 2018 at the large vision fair in Stuttgart. It feels great to be able to offer our customers in Sweden, Norway and Denmark the absolute latest, cutting edge technology.

How will you be working in five years?

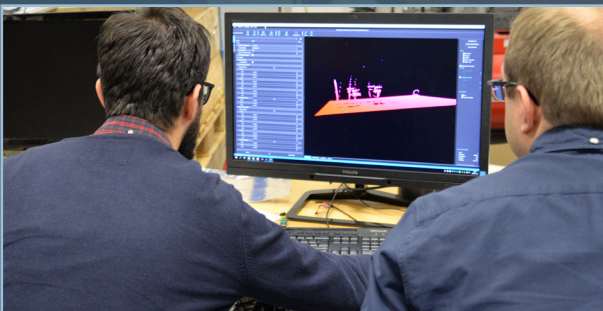
We are already seeing our customers becoming more knowledgeable than most. It will be ultra-important to help the customer with a complete solution contributing technical knowledge and expertise. Customers want and demand 'proof of concept' to validate they will benefit from their investment. We thoroughly test solutions within our laboratory environment before introducing the concept to our customer. This ensures feasibility before going 'live'.

What is the most fun thing about your job?

Helping customers, being part of new and exciting projects and being the first to experience cutting edge products that are technologically superior. Using this knowledge we help the customer succeed. I also get to work with some fun, exciting and really awesome products. ■

PHOTONEO 3D-SCANNER FILLING THE GAP IN MABEMA'S PRODUCT PORTFOLIO

Mabema is a system integrator of machine vision working with camera technology and image processing since the start of 2002. They are Sweden's industry leader at finding objects in 3D. They can also see great potential in expanding their range of Photoneo 3D scanners.

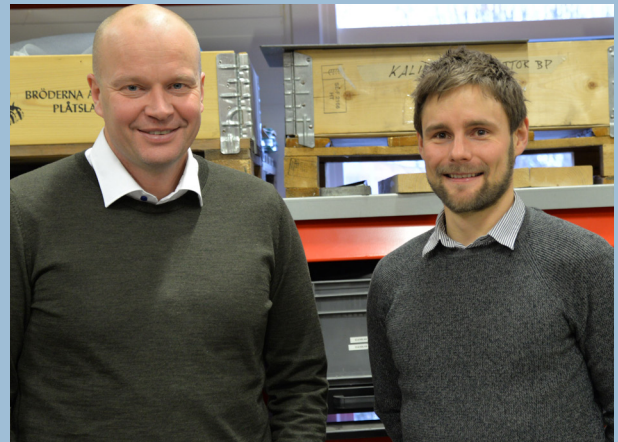


During a workshop on-site at Mabema in Linköping, OEM Automatic worked together with an engineer from Photoneo to test the very latest of Photoneo's 3D technology. Magnus Lundberg, CEO of Mabema, said they had worked a lot with 3D technology before but had never tested this technology in this way.

Mabema sees potential in the Photoneo 3D scanner as it is in between two products that have been in their range historically: 2D technology and the company's own Bin-Picking solution. "We hope that the 3D scanner will fill the gap we have had in our product portfolio," says Magnus. "This has slightly better data, is a bit faster and in another price bracket."

During the workshop, an engineer from Photoneo worked together with one of Mabema's integrators to incorporate the 3D scanner into the company's own 3D software which is very advanced in its own right and has been developed over many years. The goal of the day was therefore to find a solution to integrate the 3D drawings into the software and thereby be able to find the object. The results of the day's tests, says Magnus, have been very good. We have so far had very good results and good images of the samples tested, he explains.

Mabema and OEM Automatic have collaborated closely for a long time. "We have a great relationship, - both supplier/customer as we have had good and correct components, and support. Also on the market we have gone into partnership with certain customers who have needed OEM Automatic's components and our help to get their solutions started. It has been a fruitful way to work and we have been very generous with information in both directions which I also appreciate greatly," says Magnus.



Magnus Lundberg CEO Mabema (left) and Johan Kastensson OEM Automatic AB (right).

How does the future look for the vision industry?

The vision industry is growing powerfully within a number of areas, says Magnus. With all the increased quality and automation demands within the manufacturing industry it is a strong growth market. It is also growing beyond manufacturing, for example self driving cars in the Automotive industry. Also systems that exist in security with monitoring both us, people, in the form of facial recognition, and medical image processing. It is an enormous future industry, he finishes.

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MABEMA was established in 2002 in Linköping and has four commercial areas: Robot Vision, Vision, Nuclear and Wood. Mabema delivers primarily complete vision systems with managed services, but also turnkey machines.