

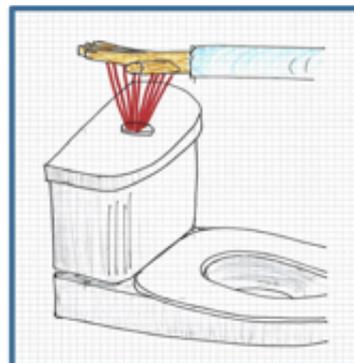
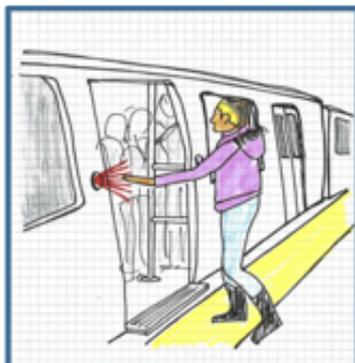
**It is difficult recognize those
as a fool who admire us.**

Marie von Ebner - Eschenbach

CEO's Note

Dear Reader,

It's incredible how many applications can be solved by the use of 3D Time-of-flight (TOF) sensors. When I started research and development for 3D TOF in the late eighties, my "field of view" for applications was very limited to sensing people in front of automatic sliding doors. At the beginning such doors at the entrance of buildings.



But later, also elevator doors which are basically the same. At least at the first glance.

Now, decades later, these starting point applications will somehow resist its implementation with 3D TOF sensors. The practical use of such sensors appears at first to be quite simple. But, as always,

the devil is in the detail. Such doors are typically very shiny this creates mirrored images. Hard to resolve! However, there is moving terrain and implementations are in the type approval process.

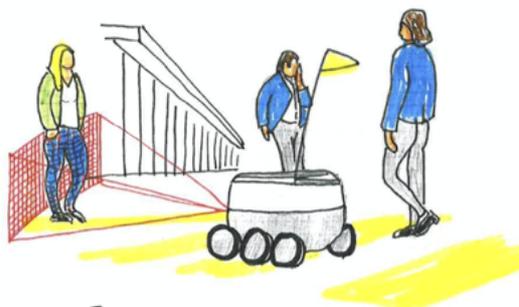
What is interesting is that so many new applications popped up which can be solved with 3D TOF imagers.

People counting is an important application, especially during this pandemic time. Another is touchless sensing. No one wants to get infected so every touch avoided is one possibility less to get the virus.

Beat De Coi

'The last mile' with ESPROS' TOF

Get out of the way! We want a part of your sidewalk! Online retail sales are growing. Meal-kit companies are proliferating and all kinds of stores are making an increasing part of their sales online.



- 5m range
- Obstacle detection
- SLAM

Humans on motorized scooters or in large delivery trucks carry meals, groceries and packages to homes and offices. All these vehicles compete for space on busy urban streets. Lots of them park outside authorized areas, blocking bike lanes, cross-

walks and public infrastructure. By moving the last leg of deliveries – called "the last mile" – from the road to the sidewalk, cities could reduce congestion and eliminate the parking problem entirely. Not only to clear up urban traffic but driven by a huge potential to slash last-mile delivery costs in cities, many entities are developing autonomous delivery technologies based on service robots. To gain public trust, these machines must demonstrate they can safely and unobtrusively share pedestrian space. Sensors are supporting machine-learning software and digital maps to safely navigate around pedestrian legs, nosy dogs and cracked sidewalks. 3D Time-of-flight measurement is one of the most important technologies in this context. Full visual acuity in dark as well as full sunlight.

With ESPROS TOF imager chip epc660-based sensors the door is open for real innovation in autonomous delivery services!

About TOFcam-660

The TOFcam-660 is a cost optimized 3D camera. It is based on the ESPROS proprietary time-of-flight technology using the epc660 TOF flagship chip. More information you will find [here](#).

Feng Jin; Deputy General Manager ESPROS China

What are your responsibilities at ESPROS?

There are two teams in China: The Chip design team and the Sales team. These two teams work very closely together to support our customers both at chip level and system level, providing very effective customer support. My team is also responsible for developing business in China. Our job is to find the right market and applications. Then we can help our customers design their products and release them into their markets.

How long have you been working with ESPROS?

I have been with ESPROS for nine years now.

Where do you come from?

I am from a city called Wenzhou, located in the south of Zhejiang Province.

What do you like about your job and working for ESPROS?

It's amazing that I can work together with some of the most professional engineers in the world to solve real-world problems you may face daily. I also really enjoy being part of a team implementing ideas which were only drafts on paper a few years previously, since then they have become actual products and are now used in many applications to promote society's progress, and I'm really excited about what we could see in the near future, I'm convinced we will have many successes. I find this really cool and fantastic.

Can you tell us about your hobbies?

I love spending time with my family, especially playing around with my son. When I have some time for myself, I love hiking, playing basketball and reading.



Presentation by ESPROS at Image Sensors & IS Auto Online

Image Sensors Americas and Image Sensors Auto Americas, are coming together, online, this December 2, 2020.



Image Sensors & IS Auto Online 2020 is bringing together experts from the auto industry and companies from all areas of the image sensor supply

chain to support advancements in the imaging industry and improve the quality of products we use in our everyday lives. This event will unite globally recognized experts for high caliber discussions and networking opportunities that you will not find in any other event in the market.

For more information, visit the event website: <https://www.image-sensors.com/image-sensors-americas>

Join us December 2, 2020 for Smithers' Image Sensors & IS Auto Online 2020!

As an event speaker, we are excited to share new ideas and possibilities in the image sensors industry.

Presentation title:

Ultra Fast Imaging for LiDAR Applications

Presenter: Beat De Coi, CEO & Founder ESPROS Photonics AG

More information you will find [here](#).

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