Right now, the manufacturing industry is undergoing a major revolution. Dozens of tedious works such as carrying materials, packaging products can be done by Autonomous Mobile Robots. Therefore, factories’ labor costs can be reduced and production efficiency can be increased.

Right now, our world is undergoing a major revolution. Self-driving cars is trying to replace human drivers. Restaurants and hotels use wheel robots to serve their customers. With the help of those autonomous systems, human can do less tedious works or danger missions. It’s clear that these robots will reshape how we work in the near future.

**Right now, our world is undergoing a major technological revolution. Self-driving cars are being developed to replace human drivers, while restaurants and hotels are starting to use mobile robots to serve customers. These autonomous systems help reduce tedious task and take on dangerous missions that were once performed by people. With these advancements, it’s clear that those robots will play a key role in reshaping how we work in the near future.**

However, this technological shift brings challenges. In the future, many people will live alongside robots, not only in high-tech factories but even on the streets. In general, those moving robots’ missions are simple. Moving from point A to point B. but they could confront people, cars or any kind obstacles in their root. Those robot have to avoid all of them. Unfortunately, even today’s most advanced AMRs struggle with dynamic environments, which reveals a significant limitation in their navigation systems. This is an area where improvements are still needed.

**However, this technological shift also brings new challenges. In the future, people won’t just encounter mobile robots in high-tech factories—they’ll interact with them in every day settings, including streets and public spaces. While the main task for many of these robots is simple—moving form point A to point B—they often encounter people, cars, or other unexpected obstacles along the way. To ensure safety, these robots must avoid such obstacles in real-time. Unfortunately, many of today’s navigation systems still struggle with dynamic environments, highlighting their limitations in handling moving obstacles. This is a critical area where further improvements are needed.**