

## SUMMARY

Competitive advantage is a success driving criteria of every company as it makes the company superior to its rivals and distinguishes its goods from others. The key to success almost in all cases lies in how the company handles its logistics, both internal and external. A great catalyst to optimized logistics is technology and control of information flow. Affordable and flexible logistic optimization software that deals with tasks optimization and management, robots and motion planning, sensor data and data visualization, and on top of everything – allows smooth and simple transformation into an Industry 4.0 is merely a desire every SME owner would have.

Within a year of work for the L4MS project, author has helped to develop OPIL, mainly program and test the Sensor Agent Node IoT module which handles sensors connection, processing raw sensor output and submission of context data to a cloud broker, the Orion Context Broker. Furthermore, author and his team have successfully tested the work of the OPIL platform as a whole and confirmed that it is indeed modular. Within a short period of time L4MS is expected to be deployed and experimented globally within the premises of actual industries all over the Europe, including Estonia.

Participation in L4MS and writing of the present thesis was a great journey for me, as I have acquired many new skills, learned a lot about the robotics, Industrial IoT, sensors and embedded systems. I was able to experience what it is to work in a big project and as a part of international team of specialists.