

L3 Summer Work Experience Report

I did my L3 internship at Exotec in their office in Croix, a city close to Lille in the north of France. Exotec is a company that offers a robotics logistics solution to store and dispatch wares in warehouses. The company founded in 2015 by two engineers has Decathlon, Auchan, Uniqlo, Lyreco and many other firms as clients. It is also the first unicorn industrial company in France, an unicorn is a company defined as a startup that reaches a valuation of \$1 billion.

I was in production unity, we assembled different pieces to build robots. More than 8000 robots were ever build when I arrived in July 2024. To build these robots, logistics received pieces,screws, motors and electronics delivered by different suppliers. Small items were stored in a small skypod system inside the factory and bigger items were stored in industrial racks. Then, my team of 15 people assembled the 13 subset of the robot. Each subset has a particular function on the robot and to provide malfunctions, someone else verified our subset each time. After, it is the final assembly of the robot, the 13 subset were assembled and the robots are wired. Finally, there is a step of calibration, LIDAR is positioned to be at the floor level. Also, the robot has to pass inside skypod system to do active and autonomous calibration and to make sure he works well.

I've seen the ambiance of work production, other technicians discuss and do jokes during work. I've also discovered the quality, logistic, methods department and see how to manage a team with more than 20 people with problems that appear.

During this internship, I've seen the functioning of industrial robots like skypod and also discovered team work and ambiance inside the factory.