

Client

VOLVO

Participants
75 studentsDuration
24 hoursPrize
1 500€ + trip

Challenge

Autonomous solutions for end-of-assembly-line car parking

While exploring ways to innovate their business, Volvo faced a critical decision: Should they replace human drivers at the end of the assembly line with an autonomous solution? Seeking a comprehensive evaluation, Volvo approached Noove to design a challenge that would explore the pros and cons of autonomous transportation.

Ideation and challenge creation

3 weeks

In the ideation phase, we worked with Volvo to precisely define the problem and outline the parameters of the challenge. At this point, we had to decide what type of autonomous solution to explore. Should it be a crane, self-driving car or something completely unique? These considerations were crucial in shaping the challenge.

Challenge

24 hours

The challenge was launched as part of a 24-hour hackathon, where seven student teams explored possible solutions. The goal was to not only weigh the pros and cons of autonomous transportation, but also propose practical implementations.

Outstanding results

3 hours

The results were remarkable. Each team demonstrated improvements in their transport methods. In particular, the winning team went above and beyond by completely rethinking the layout of car parks. Their solution included more efficient storage of cars and an optimised movement strategy that took into account optimal turning angles. What set this team apart was their ingenious use of existing sensors for autonomous transport.

Volvo's response

Volvo was delighted with the results. The event provided invaluable insights that enabled the company to make an informed decision about adopting autonomous solutions for its transportation needs. The winning solution, which put an emphasis on efficiency and sensor utilisation, stood out as a beacon of innovation.

tl;dr

Put simply, the collaboration between Volvo and Noove not only solved the initial challenge, but also paved the way for further exploration of autonomous technologies in the automotive industry.