

Case Study Precise Positioning



Thanks to Precise Positioning technology, we can provide an accurate and reliable summary to student drivers. Smartmoov will continue to work on revolutionizing driver learning for safer roads across Europe.”

Stephane Pau, CEO Smartmoov

Improving Driving Skills & Road Safety with AI

Smartmoov is a French company specializing in providing solutions for driving schools tasked with producing responsible automobile drivers. Smartmoov can also assist insurance companies by assessing the risk levels associated with insured drivers using AI.

The Challenge

Driving schools, road safety associations and insurance companies need to monitor and optimize driving behavior to ensure road safety. However, there are over 50.000 driving schools and more than 300 million drivers in Europe, which makes it very challenging to monitor driving behavior and promote responsible driving. Smartmoov has designed an automated monitoring and analytics solution to enable the monitoring and improving of drivers' behavior, thus ensuring safer roads for everyone.

The Solution

Smartmoov is using a dashcam to record video footage of driving lessons date both inside and outside the vehicle. To add accurate location information to the visual data, Smartmoove equipped their dashcam setup with the PGM Evaluation Platform using Skylark cloud-based GNSS corrections to precisely locate the vehicle, providing lane-accurate path following and positioning information. Once the video data from the dashcam and the precise location data are combined, the driving instructor obtains a detailed overview and analysis of the drive where any special events or incident are automatically detected and highlighted. At the end of the trip, an AI-generated statistical report informs the driver about the areas of improvement.

The Result and Next Steps

The incidents recorded for specific driving profiles when Smartmoov used Precise Positioning showed that the accuracy in which the vehicles route is displayed on the map and the detection of the precise location of a driving mistake improved significantly, enabling Smartmoov to provide a much more accurate and reliable driving summary to students and driving instructors.

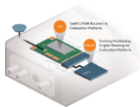


Figure 1: PGM Receiver, 50.95 x 30 mm Mini PCIe



Figure 2: PGM Evaluation Hardware 115 x 82 x 34 mm

