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**\*\*\*FOR IMMEDIATE RELEASE\*\*\***

Press Release

**Genelec helps state-of-the-art racing simulator shape Finland’s next F1 stars**

*CAVE Oy’s Andy Symonds partners with Genelec*

*to help young drivers race into the future*

**Seinäjoki, Finland, December 2024…** In the world of [Formula 1,](https://www.formula1.com/) technology plays a pivotal role in performance, not just on the track but before drivers even touch the steering wheel. Racing simulators, equipped with cutting-edge audio-visual systems, are increasingly being used to mirror the intense atmosphere of race day. In Finland, experienced AV engineer Andy Symonds and his [CAVE Oy](https://www.linkedin.com/company/cave-oy) company have taken this technology a step further by employing [Genelec](http://www.genelec.com/) loudspeaker systems to create a one-of-a-kind simulator facility aimed at nurturing the next generation of Finnish racing talent.

Symonds’ simulators, located at CAVE’s headquarters in Seinäjoki, are designed with a clear purpose in mind: to provide young drivers with an opportunity to train in an environment that closely replicates the real-world conditions of Formula and GT racing. To achieve this, Symonds relied on two key partners – Genelec and [Absen](https://www.absen-europe.com/), a global leader in LED display technology.

“The driver’s experience has to feel exactly like it would on a physical track,” Symonds explains. “When it comes to the visuals, whether you’re using LED or projection, it’s relatively straightforward to replicate the race environment. But the audio is just as critical, and that’s something that can often be overlooked.” To address the audio challenge, Symonds turned to Genelec, known for their industry-leading expertise in loudspeaker technology. “Genelec is a premium Finnish audio manufacturer, and I wanted to work with a local company that shared my vision,” Symonds says. “I knew they could deliver the precise, high-quality sound needed to make this simulator truly immersive.”

The partnership with Genelec led to the creation of a charitable foundation, allowing young drivers in Finland, between the ages of 12 and 18, to access the simulators for free. In addition to the advanced technology, the facility provides access to data engineers and an experienced Formula 1 coach, offering participants a comprehensive training experience. “The idea was to create a development tool specifically for drivers, not just for car engineering – although we can do that too,” Symonds explains. “We’ve had the system up and running for over a year now, and already, we’ve helped a number of young drivers in their racing careers.”

Central to the realism of the simulators is the AV setup. Symonds chose to equip the Aston Martin simulator with 10 Genelec [8340](https://www.genelec.com/8340a) studio loudspeakers and two [7360](https://www.genelec.com/7360a) subwoofers, while the Formula chassis simulator system comprises five [8351](https://www.genelec.com/8351b) studio loudspeakers and one [7380](https://www.genelec.com/7380a) subwoofer. The driver is seated in front of a 180-degree, 7m diameter curved Absen LED screen, with the loudspeakers arranged in upper and lower 5.1 layers to create an immersive sound environment. “We needed the audio to be loud enough to feel like you’re in an actual race car,” Symonds says. “It has to be powerful enough to cut through the helmet and padding that the driver wears, yet remain balanced and clear. That’s where Genelec’s expertise really came into play.”

The sound system replicates a range of racing noises – from the low, rumbling growl of the engine to the high-pitched squeal of the tyres gripping the track. Every sound is finely tuned to create the sensation of being on a real racing circuit. “Some drivers have told me that they forgot they weren’t on a real track during the session,” Symonds laughs.

While Formula 1 teams have used simulators for years as engineering tools, Symonds’ facility stands out by focusing on driver development rather than just car optimisation. “Formula 1 teams use simulators primarily to test, design and refine car performance,” Symonds explains. “But here, we’ve created a tool that helps young drivers improve their knowledge of physical tracks, learn how to deal with challenges they might face during races, and enhance their driving skills in real-time situations.”

An important element of both audio systems is Genelec’s [GLM](https://www.genelec.com/glm) calibration software, which allowed Symonds to fine-tune the sound with remarkable precision. “With just one click, we achieved the perfect balance. The software ensures that all acoustic issues are minimised, and the sound remains consistent,” Symonds says. “This technology added another layer of realism to the experience. The drivers feel like they’re really on the track, and the feedback has been overwhelmingly positive.”

For more information, please visit [www.genelec.com](http://www.genelec.com)

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***About Genelec***

*Founded in 1978, Genelec is the global leader in designing and manufacturing active loudspeaker systems for professional studios, audiovisual installations and residential applications. With an unrivalled commitment to research and development, all Genelec solutions offer truthful sound reproduction, exceptional reliability, and the ability to adapt to their acoustic environment. Manufactured sustainably in Iisalmi, Finland, Genelec technology represents a secure long-term investment in outstanding audio reproduction.*

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