KEYNOTE SPEAKER

31st Annual INCOSE international symposium

Virtual event

Lex Hoefsloot

CO-Founder, Lightyear

Speaking Topic: **How systems engineering made solar cars a reality**

Biography. After long-nights of research and brainstorming, we founded Lightyear in 2016. The company has grown exponentially, we have over 34 patents pending, over 100 early pre-orders, first driving prototypes and working towards production for a first Exclusive Series of cars and setting up the High-Volume Series. Lightyear is prepared to make a dent in the universe by putting a high comfortable 4-seater car on the Earth, free from the grid, enabling clean mobility for everyone everywhere.

In the summer of 2017, I was lucky to be selected as one of the 90 people from all corners of the planet to participate in the Singularity University Global Solutions Program with the goal of accelerating companies that solve climate change. As a participant, I was coached by the world's best thought leaders, entrepreneurs and investors in leading transformative companies. This leadership program is recognized as one of the most forward thinking in the world and provides access to a network of more than 10,000 highly successful individuals and alumni of Singularity University.

With a bachelor's in mechanical engineering and a master's in automotive technology, Lex was the team manager and co-founder of Solar Team Eindhoven. Solar Team Eindhoven has won the last 4 editions World Solar Challenge Cruiser Class by designing, building and competing with most efficient multiple seater vehicles on the planet. More than 35 students helped to get our first car on the road.

Abstract. Lex and his co-founders have been working on solar cars for 9 years. In the early days, they drove the first 4-seater solar car in the world championship for solar cars in Australia and won the first time they participated. From that moment on, all of their focus has been on how to make the first customer-ready solar cars and they strongly leveraged systems engineering to make it happen. Lex will talk around the why, how and the what. Why has system engineering been so crucial for them?