Engineering Tomorrow's Electric Motors with The Power of 3D Printing

Dr. ir. Ahmed Selema is a visionary innovator in smart and sustainable manufacturing technologies driving the future E-mobility.

With over a 10 years of experience in electrical engineering, his career spans academia and industry, progressing from an engineer to academic staff and into industrial research and innovation. In 2020, he joined the electromechanical engineering from Ghent University, Ghent, Belgium where he received his Ph.D. degree. As an industrial research engineer at the Electrical Energy Lab (EELab), he has worked closely with leading industrial partners across Europe. He is also a Corelab Member in Flanders Make, the strategic research center for the manufacturing industry in Flanders, Belgium.

Currently, he works as technology director of USP3D, a spinoff from Ghent University (www.usp3d.be), where he leads the development of 3D-printed aluminum windings for electrical machines known for their market-leading efficiency, power density, and sustainability.

With a strong background in electrical engineering and additive manufacturing, Ahmed has been at the forefront of developing next-generation technologies for high-efficiency electrical machines. His expertise extends to pioneering manufacturing processes, including several technological contributions in the area of electrical machines and drives, thermal management, and, material engineering, 3D Printing.

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