

CITATION – Mr Gerard Caré

Chancellor, it gives me great pleasure to present Gerard Caré to you for admission to the degree of Doctor of Engineering (honoris causa).

Gerard gained a Bachelor of Science in Computer Science plus a Bachelor of Engineering, Aeronautical, with first class honours, from the University of Sydney in the 1980s. He was on his way to also completing a research degree in engineering, but the intellectual lure of growing Strand7 Finite Element Analysis software to become a world leading product was too great. His mix of skills, both engineering and computer science, transformed the otherwise mathematical (finite element analysis) theory into a useful and commercially viable tool. Thus, it is very fitting that he stands here today in recognition of his demonstrably significant contribution to Engineering design and application, and across many fields - mechanical, aeronautical, marine and civil/structural, biomechanical to name only the major ones.

Gerard, as CEO of Strand7, has built up its global business by hiring young skilful engineering graduates (over 40% of the staff are Sydney University graduates) and ensuring they gain the professional development to launch their careers.

If I were to ask any of you what the Guggenheim Gallery in Bilbao, the Burj Khalifa (the World's tallest building) in Dubai, the last four Olympic Stadia and shoes from Prada have in common, the answer is not obvious. Clearly they all need to fulfil their purpose, be strong enough, stiff enough and survive in their environment, an earthquake, a "very bad hair" day. The answer for all of these and many thousands more buildings, ships, objects is that they all use Strand7 to simulate the physical behaviour of the object prior to manufacture or building. Strand7 is mostly a product of the skill and ingenuity of Gerard Caré.

To see the results of Gerard Caré's skill, ingenuity, and dedication as an integral part of important products on the global engineering stage is, in part, a compliment to the engineering and computer science education he received at the University. Launched from this platform, his work has become a shining instance of 'research impact'.

Chancellor, I present Gerard Caré for admission to the degree of Doctor of Engineering (honoris causa), and invite you to confer the degree upon him.