

Hassan Akhtar completed his BEng in Mechanical Engineering with Industrial Placement Year from the University of Surrey in 2016. During the placement year, he worked as an R&D Engineer at Dynex Semiconductor Ltd where he learnt and gained experience on power electronics module design, simulation and packaging. After finishing his undergraduate degree Hassan got a bursary from Lancaster University based on his achievements and completed an MSc in Mechanical Engineering. Hassan joined back Dynex after completing his Master's as a Design & Development Engineer where his main achievement was the design of a SiC 1.2 kV Power Electronics Module for an automotive application and transfer of the design pack to the parent company in China for mass production. Further, he supported the qualification and reliability of the high power modules using non-destructive failure analysis techniques. In Feb 2019, Hassan joined the MTC to build the Power Electronics capability and solve the challenges faced by UK supply chain to achieve the Governments net zero targets. The work involved leading and successfully delivering a variety of industrial projects ranging from Defence, Automotive and PCB miniaturisation applications.