

UNIVERSITYOF BIRMINGHAM

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Dear Sir,

Alexander Dawes joined the MEng Mechanical Engineering programme at the University of Birmingham in September 2020. He completed his final year project under my supervision on the utilisation of artificial intelligence for designing and optimisation of lattice structures fabricated by laser powder bed fusion technology. He achieved 82% in his project and graduated in 2024 with first class honour. The output of his project will be published as a research article in Q1 international journal by the end of this year. He also won two prizes from the School of Engineering for his excellent academic achievements.

Alexander Dawes has been an excellent student who is enthusiastic about engineering. He is bright and articulate and has and an excellent work ethic. It was a real pleasure working with him. He has all the skills to work as Mechanical Design Engineer.

Yours faithfully,

Professor Khamis Essa Professor of Digital Manufacturing School of Engineering

University of Birmingham