

Roland MDX Case Study – The Scots College

Prototyping Technologies Inspire Grand Designs

Eighteen-year-old Daniel Tucker of The Scots College in Sydney (Australia) is the proud creator of a striking solid wood guitar. The College's state of the art facilities use the latest technologies, including Computer Aided Manufacturing (CAM) tools, and enabled Daniel to design and create his masterpiece.

By using the revolutionary MDX-650 at the Roland head office, Daniel achieved great success in the design and manufacture of an eye-catching and professional-looking guitar.



Scots' Higher School Certificate (HSC) students in their final year of secondary school have been taking advantage of the College's Roland MDX-40 milling machine since its purchase almost a year ago.



The innovative technology is used in the Design and Technology Course. This course requires the use of the design process of researching, designing, manufacturing and evaluating to determine a solution to a need. The resulting course projects are judged externally on a statewide basis.

Roland's pioneering milling tool has enabled The Scots College students to experiment with their designs, making prototypes of their concepts in 3D form for evaluation. Once a design has been selected, the students create the product in 3D form — leading to a rewarding result for both the Scots boys and their teachers.

Daniel Tucker is one such Scots' boy. He designed an ambitious Victorian ash and Mahogany wood guitar. By using the revolutionary MDX-650 at the Roland head office, Daniel achieved great success in the design and manufacture of an eye-catching and professional-looking guitar.

Daniel's initial prototyping was completed on the MDX-40, enabling his ideas and concepts take shape and allowing experimentation, testing and refinement of the design drawing before final production.



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Dr. Ian P.M. Lambert, The Scots College Principal, advocates for and strongly supports the use of innovative technologies and state of the art equipment and facilities at the College. "With today's rapid rate of technological advancement, it's essential to remain abreast of the latest technological trends, so our boys are equipped to be fine future leaders," he said.

