

# DEVELOP 3D

TECHNOLOGY FOR THE PRODUCT LIFECYCLE

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## THREE WHEELING



THE  
FUTURE  
OF  
WHEELCHAIR  
DESIGN

URBAN  
VINYL  
HOW RAPID  
PROTOTYPING IS  
TRANSFORMING  
A GLOBAL  
SUB-CULTURE



**PUURFECT DESIGN**



Cats are particular about many things; what they eat, where they lounge, which item of furniture to scratch the hell out of, and most importantly where they go to the loo. You'd be hard pushed to find a receptacle for animal faeces that has had as much thought put into it as the ModKat. This feline friendly litter box features a 'rooftop' entry that catches gravel as the cat walks out of the box, an ergonomic shovel with a brush to sweep up accidents, and a reusable litter bag to save money and the environment.

"We thoughtfully considered every detail, from non-skid feet that keep ModKat put, to the locking rooftop that keeps nosy pets and curious kids at bay," says Brett Teper, who along with ModProducts partner Rich Williams, designed the product.

Truly functional, yes, but form also played a critical role in the design process. "We set out to design a litter box that was aesthetically worthy of occupying prime space in a small apartment, why should one be embarrassed to have their litter box out in the open?" says Brett.

Beginning with sketches Brett and Rich then developed full-scale foam core mock-ups. From there they worked with Cheetah 3D (an Apple Mac-based 3D tool for modelling, rendering and animation) and Adobe Illustrator to develop profile drawings, hole patterns on the top and to flesh out the hinge mechanism that causes residual litter to fall back into the box.

These were passed on to the manufacturer who developed more detailed models in SolidWorks to incorporate the necessary tapering required for the injection moulding process. Several full sized models were made to test for stress, and assess colour and textures.

For further testing real cats were also let loose on the ModKat and multiple breeds, of various ages and 'unique personalities', all felt immediately at home. If you treat your cat to this cool looking litter tray, the chances are they might actually like you for once.

[www.modkat.com](http://www.modkat.com)

(Above) The ModBox is a stylish alternative to the traditional cat litter tray  
(Below) Clockwise from top left: Initial Sketches, Prototype hinge, Prototype lock, Foam core mock-up, SolidWorks model, Scoop studies

