

EDSGN 497 K Engineering Design and Analysis with CATIA

SPRING 2012

Mini Design Project for Rapid Prototyping

Due Date: March 29, 2012

Design Task:

Design and produce a prototype via rapid prototyping of an innovative perfume bottle.

Design Specifications:

- The bottle is used for a volume of 118.5 ML (or ~ 4.0 FL OZ);
- The maximum size of the bottle should not be greater than 200 mm or 8”;
- The minimum thickness of the perfume bottle should not be less than 3 mm or 1/8” to ensure a successful rapid prototyping.

Deliverables and Evaluations:

- | | |
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| • A 3D solid model generated by CATIA V5: | 60% |
| • Detail drawings of the bottle (multiviews with full dimensions): | 20% |
| • Prototype by rapid-prototyper: | 10% |
| • Creativity | 10% |

Total:	100%
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Note: After you finalize your design, please save it as

“YourFirstName_EDSGN497K_SP12.stl” and then upload the stl file to

<http://gamebah.com/printaverse/node/add/print..>

The due date is March 29, 2012 for you to upload your file online. You should expect to get your prototype back within two weeks or so after you submit your file online.