

MAS.962. Techniques for Design and Fabrication

Marcelo Coelho

marcelo@media.mit.edu

Materials I: Materials Selection and Composites

Part I. Materials Selection

- a. List all materials you will use in your final project and find them in the CES database
- b. Repeat the same procedure for the processes you will use to manipulate these materials. What would be the ideal fabrication processes if you were not limited by the fabrication tools available to you?
- c. Compare at least one of the main materials you will use with equivalent ones and justify your selection (e.g. easier to work with, biodegradable, light, flexible etc). Chart your comparison in CES.
- d. Hand in a PDF with your findings

Part II. Composites

- a. Design and build a small scale carbon fiber composite
- b. Feel free to incorporate other materials and explore bizarre forms
- c. How does the new material you incorporate adds a new property to the composite
- d. Make a one page website documenting your construction process with photos and text, and post a link to it on the class website. (Alternative: create an Instructable)