

Car-Man-Environment: an example project

by Andrea Pierucci

Tutor: Giorgio De Ferrari

Co-Tutor: Ermanno Cressoni

"Ego" project was born from the need to create something new in car's world, starting not only from advanced technological and mechanical solution or futuristic style, but from problems on using car in everyday life and from the exigencies of every single user. Of course technology and technique never passed on a second level but they've always been means and not purposes.

User is young people, but I think that this project interests every aged persons.



The first idea was to project something that allow every user to adjust it for his own exigencies (from here the name "Ego"). I thought to give the possibility of changing the body of the car, but this was too complex and expensive in comparison with the advantages. In any case the idea of a modifiable body, with small movements, wasn't left. I used a space-frame with composite panel body, to have independence of the body from the structure.



The frame is made of aluminium and comes from the one of Fiat "Zic" prototype; it is a cage of aluminium structural shapes with variable section, joined together by aluminium fusion.

Aluminium is simply recyclable, and this is an answer to ecological problems. Panels are monomaterial and simply disassemblable.

About projects problems I thought at young people in relation with sports and holidays. Has come out the needing to carry a lot of objects, often encumbering, just like bicycles, ski, surf....and to have a car useful for the summer, perhaps open, where you can, why not, sleep or eat; but at the same time a comfortable car for the winter, with no necessity of a ski-carrier.



So the interiors are modular, seats are removable and the floor is level, under the floor there is a long space (about 3,80m x 0,60m) that allows you to carry a lot of objects.

The result is a quite small car (length 3,80m), with a lot of space inside, simply opening for the summer, and comfortable in the winter.