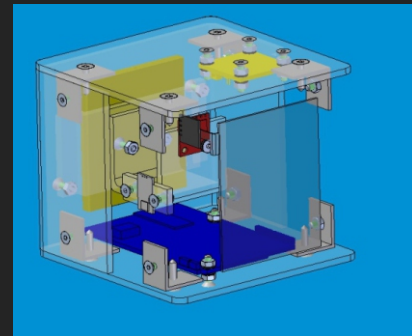


“The Context-aware Smart Object- SO” the easier way to use a CAD program

Everyone can use the SO as an Input device for CAD-programs. By using the device one can turn the model (with the sensor data). In the program 3D space, zoom in and out (with a touch pad). With the acceleration data the program decides if the SO is held in hand or lies on the table. The wireless connection is achieved via bluetooth.



Advantages:

- Controlling the model intuitively
- Wireless device
- Comfortable
- Faster
- Can be used for presentations

Components:

- Arduino board
- IMU for 3 degrees of freedom rotation
- Long lasting battery
- Touchpad for extra tasks
- Microphone for voice commands

Attributes:

- Turning the model
- Zooming in and out
- Voice commands
- The user is not “chained” to his/her computer

Target client:
• Designers and other people who are using CAD programs.
• People who are interested in using this product

Rua Dr. António Bernardino de Almeida, 431 4200-072 Porto
Portugal
Telephone: +351 22 83 40 500
Fax: +351 22 83 21 159

Anna Maria Janaszkiwicz, 1111368@isep.ipp.pt
Hannes Harms, 1111817@isep.ipp.pt
Jana Valauskaitė, 1111819@isep.ipp.pt
Toomas Juht, 1111825@isep.ipp.pt

isep Instituto Superior de
Engenharia do Porto