
globalDrive 2013/14

Bartender Artificial Arm

Technische Universität München

Tsinghua University Beijing

Continental AG as Industry Partner



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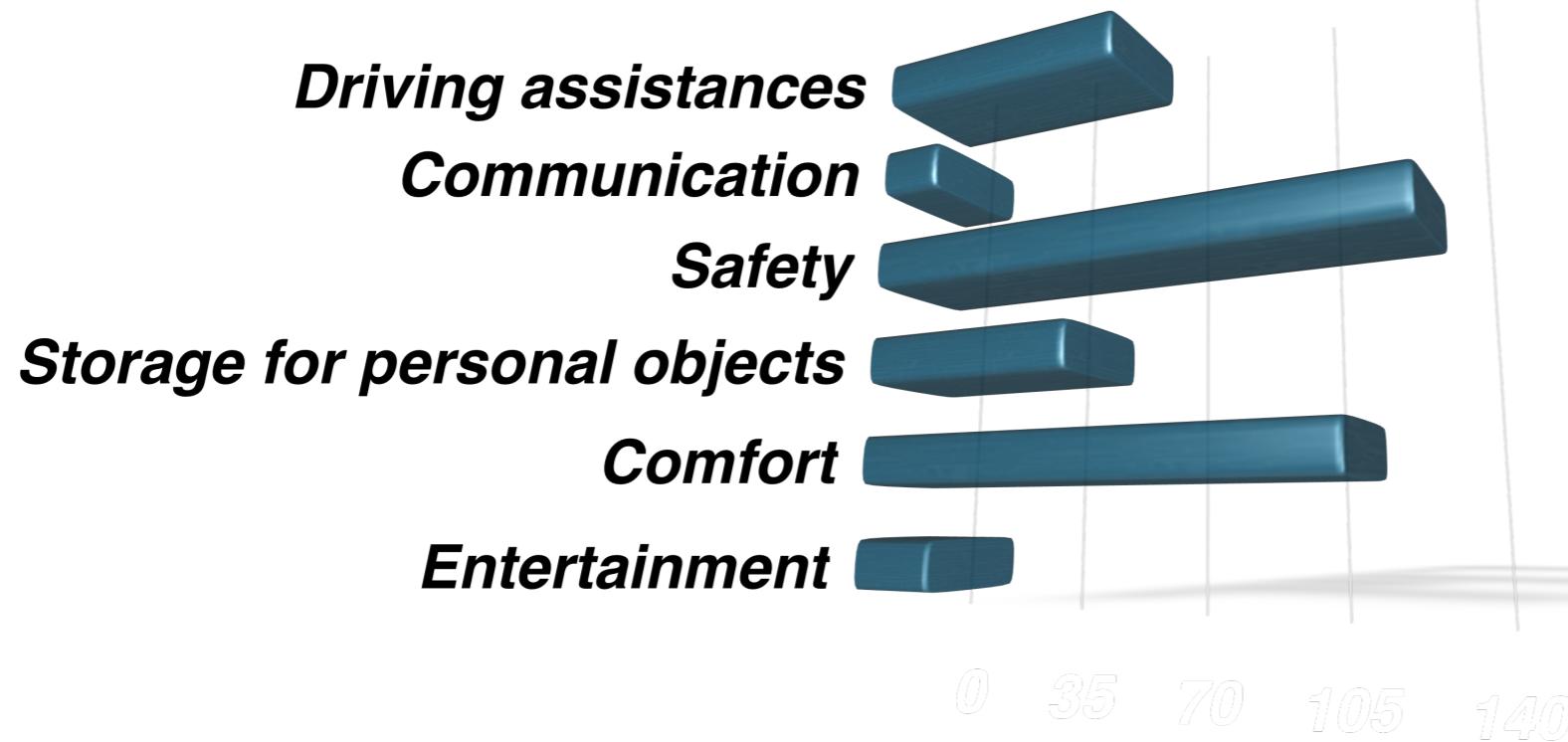
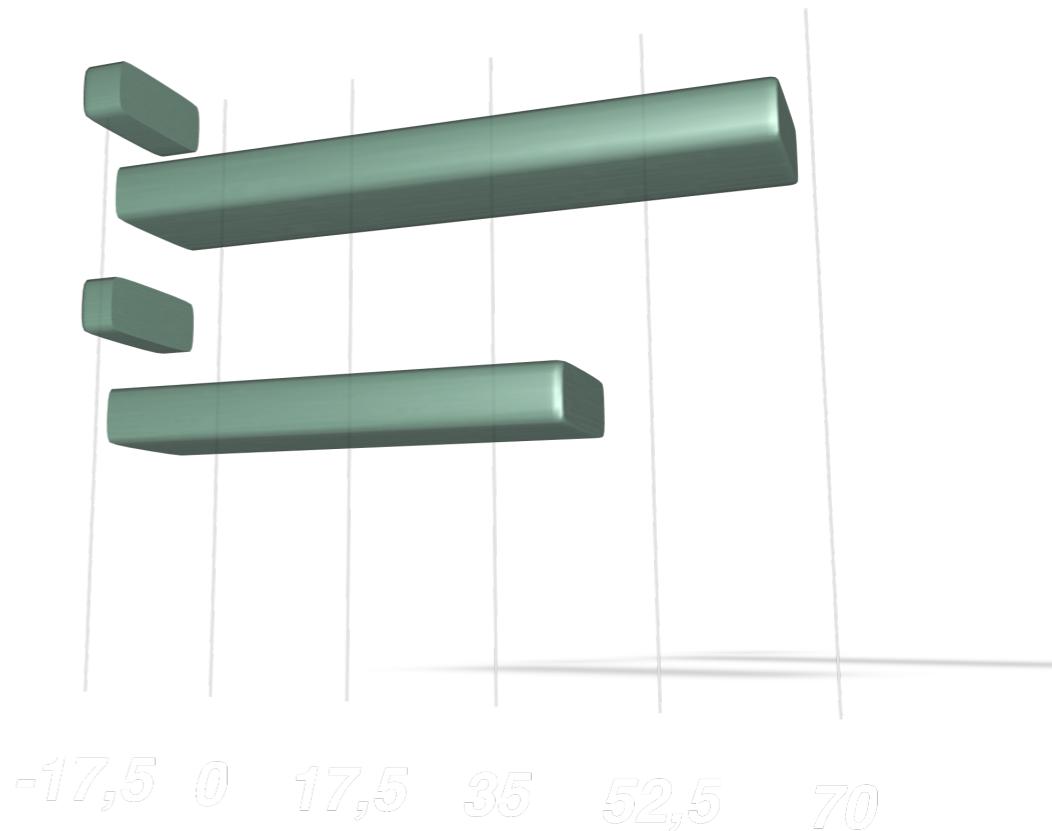


Shen Luanyin

Team members

Wish of Controlling

Gesture
Voice
Remote control
Smart phone

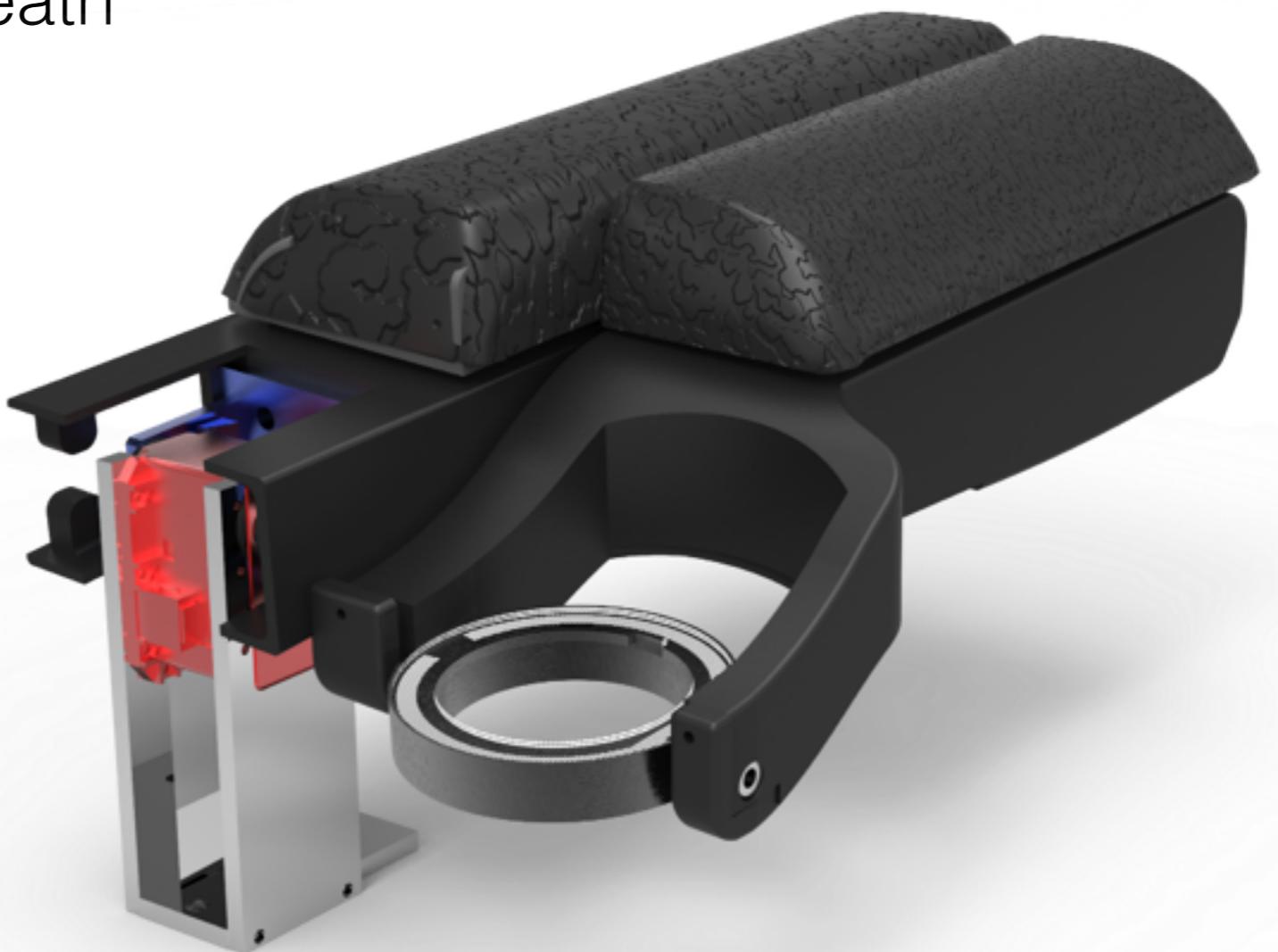


Wish of Improvement



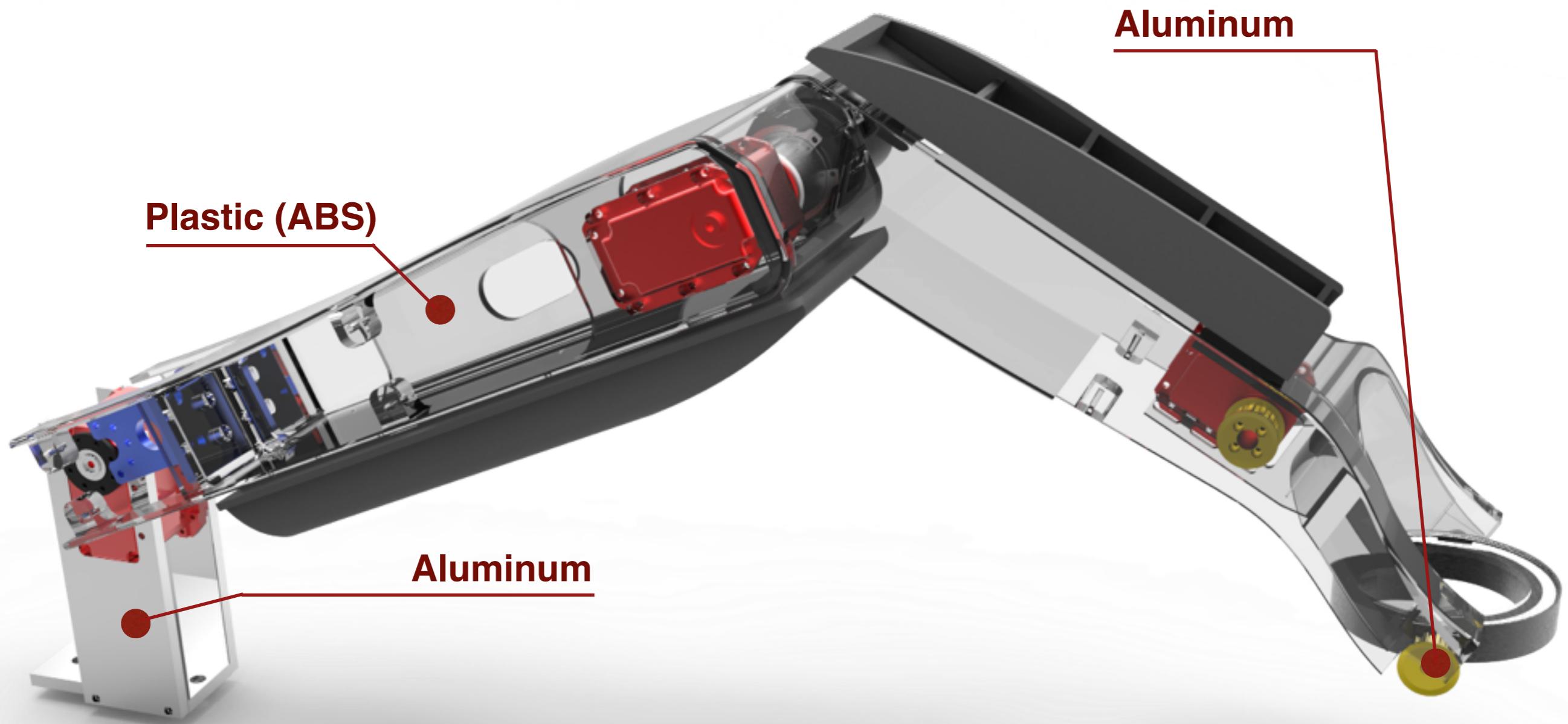
Integration

Comfortable arm rest
Storage box underneath



Light Structure

Strong enough to hold a human torso
Stable plastic and aluminum



3 High Precision Servos

Various movement control
High Torque - Low weight



Simplicity

Maintenance free
Easy to repair





Ergonomic

Lip-fit opening
Push open
Perfect size for holding

Safety

Spilling prevention
Innocuous varnish



Customized

3 own choices + hot water

Removable water tank

Automatic

Automatic cooking process

Capsule selection and location

Size adjustment





Multi-control

Voice control
“My Favor”
Intuitive menu



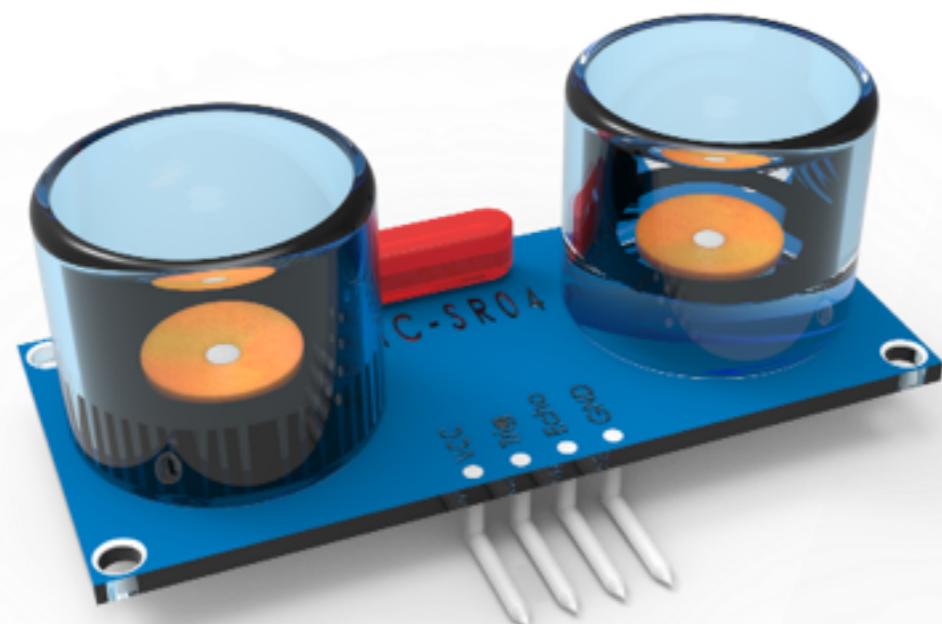
Extras of App

Cleaning function of the coffee-machine
Taste setting
Storage



Safety

Horizontal cup-holder by servo-actuation
Cup-location groove
Illumination and sound signal



For Emergency

Ultrasonic sensors
Stop!

