

The German obstacle.

Building “the double kick”.

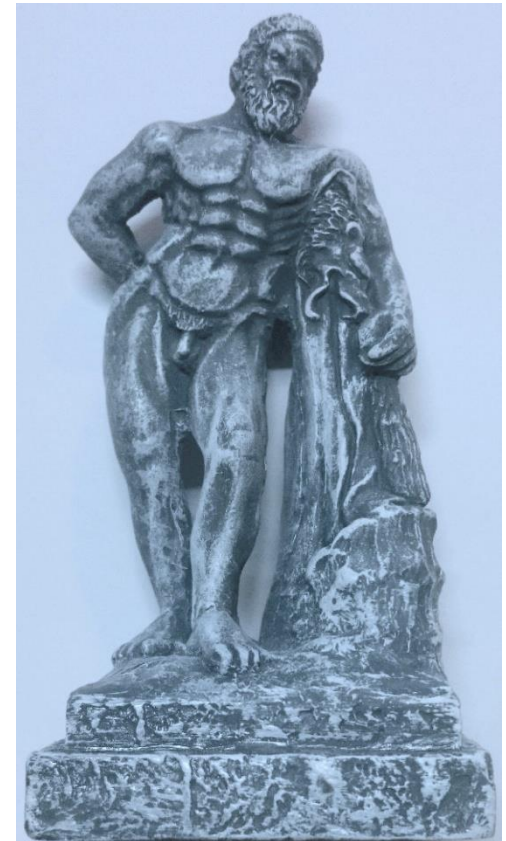


Paul-Julius-von
REUTER-SCHULE
Kassel

content of heroes



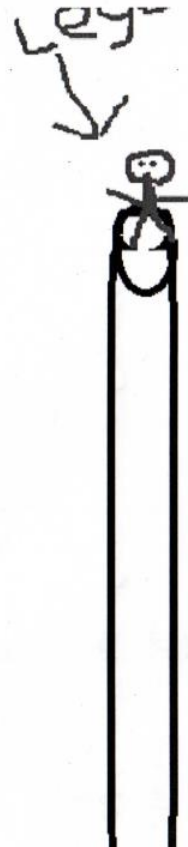
- 1. the idea
- 2. the material
- 3. the tools
- 4. the trial and error
- 5. the obstacle
- 6. the end



1. the idea

Material: es werden Holzsaulen (Pfahl ...) und zwei Legofiguren benötigt.

English: The stuff you need are two wooden pillars /sticks or something like that and two little figures, maybe LEGO.



Das Hindernis besteht aus zwei Säulen auf denen Lego-Figuren stehen. Ziel ist es, diese Figuren mit präzisiertem Fliegen herunterzuwerfen.

English: The obstacle is made of two wooden pillars with little LEGO figures on it. The goal is to fly the drone precise and kick these figures off the pillars by its landing gear.

Design by
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2. the stuff



... this is what we have found in school:

scrap wood
square timber
aluminium bars

We picked at least
2 x scantlings mm 1000 x 50 x 32
8 x scantlings mm 150 x 24 x 28

3. the tools



files
miter saws
cordless drill driver
 3mm drill
screw driver
folding rule
cross-head screws
 mm 3,5 x 40
 mm 3,0 x 20
T-square

4. the try and error



Caused by transportation via plane we decided to cut the 1000 mm square timber in 2 x 500 mm pieces. To use it at the challenge we will fix the square timber with little iron plates to its original height with cross-head screws mm 3,0 x 20.



4. the try and error



From the square timber mm 24 x 28 we cut 8 support feet with the miter saw.

Dimensions: Length mm 15 to 12

These support legs are attached to the bottom of the 1000 mm square timber, so that the obstacle has a secure footing.



5. the obstacle



5. the obstacle



Hercules, the Kassel landmark must be kicked off the pedestal just like the bird ostrich with the drone landing gear. Hercules is heavy and tall, the ostrich is small and light ...

the end



We wish you a fine drone challenge.

Bye, Merry Christmas and a Happy New Year.

Team Obstacle Germany