

45e5f96da463 https://gist.github.com/AnnaGerber/e5f897b7 code samples:

> Ubb0Im8[Ex\oo.t\\:eqtit Rover Build instructions:

to avoid obstacles

autonomously, using the ultrasonic sensor

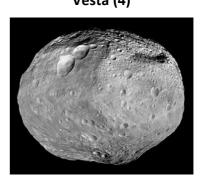
- Program your bot to drive around an area ultrasonic sensor
- Beep when an obstacle is detected using the
 - Use buttons to toggle what is displayed
- · Display the light reading on the digit display
- Display the temperature on the digit display

Here are some ideas for programming your bot:

explore the asteroid Vesta 4. Your challenge is to build a ModeRover to

Welcome to International ModeBots day 2015!

Vesta (4)



winter pole. Sun overhead, dropping to about - 190 °C at the estimated to lie between about -20 °C with the Temperatures on the surface have been rich source of information about Vesta. diogenite (HED) meteorites, which have been a

events has fallen to Earth as howardite-eucrite-Vesta's southern hemisphere. Debris from these two enormous craters occupying much of collisions one and two billion years ago that left Numerous fragments of Vesta were ejected by

the terrestrial planets. differentiated interior) of the kind that formed the last remaining rocky protoplanet (with a larger, making Vesta third in volume. Vesta is asteroid belt. The less-massive Pallas is slightly contributes an estimated 9% of the mass of the asteroid belt after the dwarf planet Ceres, and it Vesta is the second-most-massive object in the a mean diameter of 525 kilometres (326 mi). of the largest asteroids in the Solar System, with Vesta, minor-planet designation 4 Vesta, is one

> Physical characteristics $(572.6 \times 557.2 \times 446.4) \pm 0.2 \text{ km}^{17}$ 525.4±0.2 km (mean) 867 000 km^{2[8]} 74 600 000 km^{3[8]} Volume $(2.59076\pm0.00001)\times10^{20} \text{ kg}^{[7]}$ Mean density 0.25 m/s² Escape velocity 0.36 km/s Rotation period 0.2226 d (5.342 h)^{[5][9]} Equatorial rotation velocity 0.423 (geometric)[10] min: 85 K (-188 °C) max: 270 K (-3 °C)[11 Spectral type V-type asteroid[5][12 5.1^[13] to 8.48 magnitude **Absolute** 3.20[5][10] magnitude (H) Angular diameter

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