

What is a smart head circuit?

The base is a chunk of steel that held the head magnets on a big old hard disk, and is heavy enough so that the whole thing doesn't fall over. The circuit is the basic power smart head circuit, with a Miller solar engine. Since I was using a separate SE, I could gang two sets of three inverters each to drive the motor.

What is a light-tracking beam robot head?

Light-Tracking BEAM Robot Head: Hey all! Super excited to finally be sharing this robot with the internet. It is a light-seeking robot that is entirely free-formed using BEAM style analog logic, that means no microcontrollers, and it runs entirely on solar power. It is a bit long ...

What is a beam robot?

BEAM is an acronym for "Biology, Electronics, Aesthetics, and Mechanics", which describes the major influences on BEAM robot designs. The magbot circuit is neat little circuit that dumps power through a coil in order to produce motion. It's the basis for the Solarbotics SunSwinger pendulum kit, and various "sun dancer" kits.

How do BEAM robots work?

Once both panels are getting equal illumination, both motors pop and it goes forwards. BEAM robots are simple, small robots whose behaviors are inspired by biological phenomena. They are largely the brain-child of Mark Tilden, who developed most of the core circuits.

How does a solar engine work?

A solar engine circuit monitors the voltage, and when it trips power is dumped through the motor. Symets rest on their motor spindle, and scoot long the ground when the motor spins. When they hit something, they tilt onto another axis, and go off in a different direction. This is one of the first free-formed BEAM bots that I built.

How does a solar robot work?

The bot is a simple solar roller, driven by a Miller solar engine. The arm is attached to the spindle of an efficient gear motor, and there's a 0.047F storage capacitor inside. The flexible solar cell is wrapped around two toy wheels, one of which has its center removed for the motor. The goofy rubber tires fit over the ends.

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Anyone familiar with both laser beams and solar cells might imagine how power beaming might work: A laser can shine its beam at a distant solar array, ... Still, the previous head of POWER, U.S ...

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This is a solarized power-smart head. It's based on a 74AC240, with two storage capacitors (the big silver cylinders), and photodiodes for "eyes". The solar engine is free ...

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Light-Tracking BEAM Robot Head: Hey all! Super excited to finally be sharing this robot with the internet. It is a light-seeking robot that is entirely free-formed using BEAM style analog logic, that means no microcontrollers, and it runs entirely ...

This PowerSmart head circuit was solarized, courtesy of Darrell Johnson, and dubbed the Solar Power Smart Head (SPSH). The SPSH circuit has been tweaked from time to time (each time improving its efficiency); Free ...

Beam Global, a provider of solar power charging systems for electric vehicles, announced Feb. 21 that its 2021 EV ARC system shipments increased 62% over the prior year and that the company started the new year,

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I finally got my powered smart headbot to work, (note it's not a solar powered one) and here how I'm putting it together. You can see the evolution of the "brain bug" from bread board to brain bug, to bot with brain ...

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