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# RunBot

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**RunBot** is a [bipedal robot](#) with the ability to dynamically alter its gait in response to changes in terrain. The software for the system represents a unique and successful attempt at modeling the architecture of the human brain. A [modular](#) manifestation allows a change in a small number of parameters to effectively regulate the entire system. This abstraction level allows RunBot to learn new gaits quickly and intelligently.<sup>[1]</sup> RunBot was built in 2007 by a consortium of European scientists. Its movements and adaptability are based on the work of [neurophysiologist Nikolai Bernstein](#).<sup>[2]</sup>

## Design

[\[edit\]](#)

The locomotion system is kept simple with four motors: one on each of two knees, one on each of two hips. The sensory system is of similar simplicity, with the ability to detect a footfall and the swing of a leg.

## References

[\[edit\]](#)


- ↑ A walking robot goes mountaineering [↗](#). *The Hindu*. Retrieved on 2007-07-14.
- ↑ Record speed set by walking robot [↗](#). *BBC News Online*. Retrieved on 2007-07-14.

## External links

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Runbot's creators recorded demonstrations of RunBot:

- [walking at a steady speed](#) [↗](#). *The International Journal of Robotics Research*. Retrieved on 2007-07-14.
- [learning to accelerate](#) [↗](#). *The International Journal of Robotics Research*. Retrieved on 2007-07-14.
- [robot keeps walking with multi-level control](#) [↗](#). *New Scientist*. Retrieved on 2007-07-14.

 *This robotics-related article is a stub. You can help Wikipedia by expanding it* [↗](#).

Category: Robotics stubs



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