Tiny Robots

### Or Robots that will fit in your pocket.

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Instructables is having a contest for things that will fit in your pocket

<https://www.instructables.com/contest/pocketsized2018/>

So I thought about a small robot - a real robot with sensors and all that fun stuff - so I googled it…. This is what I found:

Droplets - Swarm Robotics

<https://campaigns.communityfunded.com/projects/correlllab/droplets-swarm-robotics/>

Fleaweight Class robots (not quite pocket size, but small)

<http://www.picus.org.uk/fleaweights/catatonia.html>

Antweight Robotics

<https://www.fingertechrobotics.com/images/servo201210_build_an_antweight.pdf>

Hacklet Tiny Robot Projects

<https://hackaday.com/tag/tiny-robot/>

Tiny Wifi Robot

<https://hackaday.io/project/6695-tiny-wi-fi-robot>

Terminator 2 - Micro Robot

<https://michaelthessel.com/terminator-2-micro-robot/>

Alice Tiny Social Robot (AI) (Information)

<http://www.empiricalzeal.com/2011/05/15/when-nice-guys-finish-first-a-lesson-from-tiny-robots/>

Tiny Robot

<http://www.igreenspot.com/tiny-robot-providing-fun-and-excitement-whilst-keeping-the-environment-safe/>

Tiny Robot that flies and crawls (Information)

<https://www.pbs.org/newshour/science/this-tiny-robot-flies-and-crawls-like-a-stag-beetle>

So the two projects that appear to be what I was thinking are

Tiny WIFI robot and Terminator 2 - Micro Robot

I’m thinking that using a D1 mini and the Motor shield would make this easy.

A couple of small motors, and a battery with charger, maybe the buzzer shield.

The motor shield uses I2C so two pins,

Leaving the Analog pin, and 7 digital pins for sensors or other things.

Choosing the motors seems to be the hardest part of this project.

My other choice was to use a mini RC car and modify it for the D1 mini to control it. The motor issue would be solved, but I forsee other problems with this idea.

The contest closes in 55 days - so it’s time to get to work.