

# Profile: BeagleBoard Organization

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## Rationale

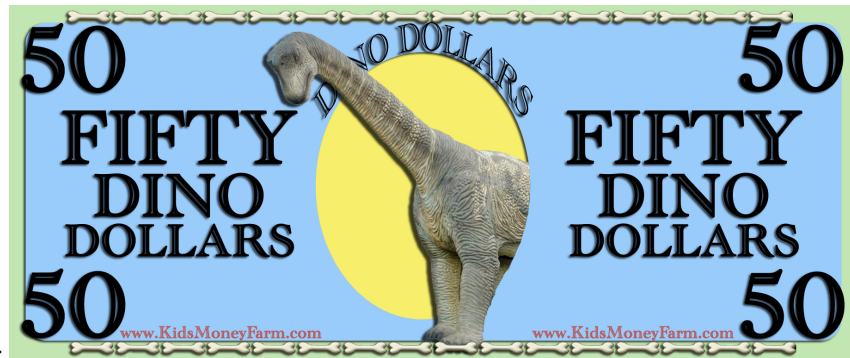
We chose the Beaglebone organization as lots of us have used either one of their products or a similar product like the Raspberry Pi. It’s a really cool company that has lots of potential for helping people get really cool embedded projects off the ground.

## Organizational Details

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- Texas Instruments is a Publically Trading Corporation
  - Originally founded as Geophysical Service Incorporated (1930)
  - Founded as Texas Instruments (1951)
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- GSI Founders:
    - John Clarence Karcher
    - Eugene McDermott
  - TI Founders:
    - Cecil H. Green
    - J. Erik Jonsson
    - Eugene McDermott
    - Patrick E. Haggerly
  - All the founders are dead
- 



- IPO:
  - Current Price \$56.535
  - [Lots of acquisitions](#)
  - TI Invests more than \$80M in [University Research Projects](#)
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- 34,759 Employees as of 2012

- HQ in Dallas Texas
  - [Locations Worldwide](#)
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- [ti.com](#)
- [Texas Instruments Wikipedia](#)
- [TI Annual Reports](#)

## Communications

### Social media

- [IRC](#)
- [Twitter](#): 6K Followers

### Communications channels

- Beagleboard has a blog that they have some announcements on as well as showing cool new projects.
  - <http://beagleboard.org/blog>
- Beagleboard has a few mailing lists and forums.
  - <http://beagleboard.org/Community/Forums>
- They also operate a video tutorial website for common issues people have.
  - <http://beagleboard.org/Videos>

### Conference Participation

- Beagleboard maintains a list of conferences as well as what was presented here. [Slideshows](#)
- Typically the conferences have to do with embedded Linux applications and the talks are given by various people in the Beagleboard community.
- Some of the conferences they have presentations at are:
  - [Embedded Linux Conference](#)
  - [Maker Faire Bay Area](#)
  - [SCALE](#)

## Community Architecture

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- [irc://irc.freenode.net/#beagle](#)
  - [Source Code](#)
  - [Forums](#)
  - [Documentation](#)
  - [Project Website](#)
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- Provides a kernel for BeagleBoard and BeagleBone devices
  - Repository is large enough that it defies analysis
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- Incorporates the Linux kernel
  - Large number of contributors as a result, but few pull requests for the repository itself
  - This repository's main differences are the BeagleBone specific drivers, etc
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- Documentation for submitting patches is from the original Linux kernel
    - Uses upstream changes, but non-upstream contributions must be BeagleBone-specific
  - Hierarchical, one component of mainline Linux development
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## Callaway Coefficient of Fail

- Hard to apply to OSHW projects as much of the code written specifically for the project are spread throughout forks of other projects.
  - Source Control
    - Public (Github +0)
    - Webviewer (Github +0)
    - Source control tool (Git +0)
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- Communication
  - Announce releases (Newsletter, Github +0)
  - Bug tracker (Github +0)
  - Website (beaglebone.org +0)

## **Bus Test**

- The GitHub organization only has 4 people on it. Fail.

## **Technology/Product**

### **Beaglebone Boards**

- Beagleboardorg has created several “boards” that are typically used in embedded Linux applications.
- Their current most popular board is the BeagleBone Black which is based off of an ARM chipset and runs Linux.
- The BeagleBone Black can be expanded by things called “Capes” which are attachments that can provide various additional functionality.
- Their older boards are the BeagleBoard, Beagleboard XM, and the BeagleBone.
- Over the years due to embedded technology getting better, their products have gotten cheaper and more powerful.