

Profile: BeagleBoard Organization

Matt Soucy

Liam Middlebrook

Julien Eid

Aaron Herting

Contents

Rationale	1
Organizational Details	2
Communications	3
Social media	3
Communications channels	3
Conference Participation	3
Community Architecture	4
Callaway Coefficient of Fail	4
Bus Test	5
Technology/Product	5
Beaglebone Boards	5

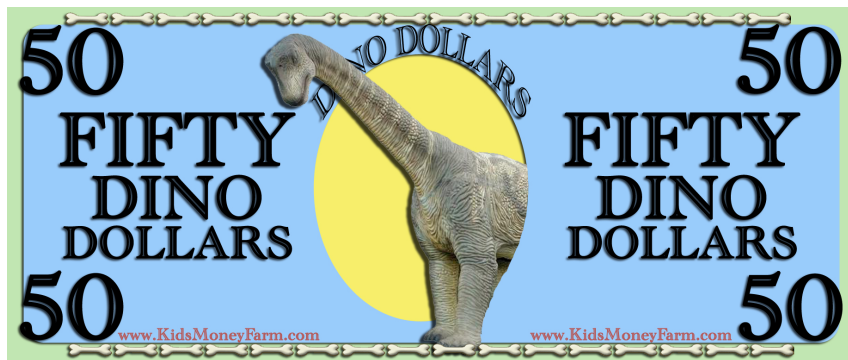
Rationale

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

- Texas Instruments is a Publically Trading Corporation
 - Originally founded as Geophysical Service Incorporated (1930)
 - Founded as Texas Instruments (1951)
-

- 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](#)
-

- 34,759 Employees as of 2012

- HQ in Dallas Texas
 - [Locations Worldwide](#)
-

- [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

- [irc://irc.freenode.net/#beagle](#)
 - [Source Code](#)
 - [Forums](#)
 - [Documentation](#)
 - [Project Website](#)
-

- Provides a kernel for BeagleBoard and BeagleBone devices
 - Repository is large enough that it defies analysis
-

- 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
-

- 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
-

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)
-

- 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.