

# G-PEAR Project

Tiago Madeira

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## 1 Objective

Make the installation of PEAR<sup>1</sup> modules easier and in a more “Gentoo-style”.

## 2 Abstract

G-PEAR will generate and install PEAR modules using portage. It will work in the same way that G-CPAN works for CPAN (Perl) packages (including command arguments). It will use an overlay and save dependency information and stored files as if they were installed through a regular ebuild.

## 3 Deliverables

1. Source code
2. Documentation (man pages)
3. Ebuild

## 4 Timeline

### April 20:

Accepted students proposals announced on GSoC site.

### Community Bonding Period:

Learn about PEAR and get more experience with eclasses.

### May 23:

Code begins.

### May 31:

Package search (-s) working.

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<sup>1</sup>PHP Extension and Application Repository: <http://pear.php.net/>

**June 07:**

Ebuild generation (-g) working<sup>2</sup>.

**June 14:**

Overlay listing (-l) working.

**June 21:**

Package installing (-i) working.

**June 28:**

Verbose (-v) and logging (-l) working.

**July 5:**

Package upgrade (-u) working

**July 6:**

Mid-term evaluation.

**July 12:**

Portage options (-a, -b, -B, -p) working.

**July 24:**

Code cleaned and optimized. G-PEAR ebuild for Gentoo.

**August 10:**

Documentation ready. ‘Pencils down’ date.

**August 24:**

After correcting any remaining bug, final evaluation.

## 5 Biography

**Tiago Madeira**, 18, brazilian, is a Computer Science undergraduate student at IME-USP. Before transferring to IME-USP, he studied one year at UFSC with honors in calculus and linear algebra.

He uses Linux and works with PHP freelancing on web since 13<sup>3</sup>. He started using Gentoo at 16 and he’s very interested in participating on its community.

Two years ago (2007), Tiago participated on Google Highly Open Participation Contest (it’s like GSoC, but for high school students), doing tasks for Drupal <sup>4</sup> <sup>5</sup> and SilverStripe <sup>6</sup>, both with PHP.

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<sup>2</sup>It does not mean it will be perfect at this date, but it will be working. Later it probably will get better. Same with the other “working” stuff.

<sup>3</sup>Last jobs (portuguese): QGN, Flash Idiomas, 2tr zone

<sup>4</sup>Auto generate project\_issue comments

<sup>5</sup>Make the “blumarine” theme in Drupal core recolorable

<sup>6</sup>Review & test Portuguese (Brazil) translation for SilverStripe, so that it can be officially released

In the last year, he contributed to the development of [Microdia webcam drivers under Linux](#) (until he broke his 0c45:6260 while testing :-). Made some other small contributions to a brazilian free software project called [Funcoes ZZ](#) (shell scripting).

Besides good programming skills and large experience with C/C++, PHP, JavaScript, Ruby and shell scripting, Tiago is a very driven and independent student. He has earned fourteen awards<sup>7</sup> in mathematics and informatics olympiads and, in fact, he is going to compete in ACM International Collegiate Programming Contest world finals this year (April 18-22) in Stockholm<sup>8</sup>

He believes he can do a great job in writing G-PEAR because of his experience with PHP and shell scripting. He has a little experience with Gentoo ebuilds and has not experience with PEAR (*yet!*), but he is sure he will learn fast in the community bonding period.

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<sup>7</sup>The complete list can be grabbed in [his CV](#).

<sup>8</sup>He is a member of UFSC Time Limit Exceeded team. Here is the [team list](#).