

- Developer, designer, administrator, editor, web content manager
- Coordinator of the group meetings
- Author of several articles about Python.
- Develop the **CEID Battle** Game with the use of the pygame module.
- A tutorial about Mercurial.
- *Talks:*
 - CEID Battle - A pet project of the local Python User Group.
 - Dictionaries, Sets and Classes in Python.
 - Introduction to Mercurial.

Important projects as a student 2005 - 2010
 (full list available on <http://aravaniskostas.com/my-projects-at-ceid/>)

- Flat filesystem from scratch.
- Customised filesystem and kernel including scheduling, process management and other in Minix.
- Implement the Sample Sort algorithm with the use of OpenMP and MPI for a multi-cluster computer machine.
- A clone of Facebook.
- Linguistic processor with indexing capabilities highly optimized for search queries.
- Simple chat client using network sockets.
- Minimalistic email client/server using UNIX sockets.
- Compiler for a minimalistic HTML-like language using Flex and Bison.
- Study of uniform and non-uniform Pulse-code Modulation (PCM).
- Implement several algorithms and data structures for several fields of the computer science (Scientific Computation, High Performance, Distributed Systems, Artificial Intelligence, Networks, Digital Communications)
- Develop a patch for the BOINC project (grid computing), which was enforcing the RAM limits. Record the working-set of all the applications that exist in memory and not of BOINC. Bound the BOINC applications to work in physical memory.
- Develop the hardware design and the assembly code for a humidity measurement system, by using a PIC micro-processor

Miscellaneous talks 2010 - Present

- Introduction to Mercurial - OpenFest (a conference about Open Source located in Athens)
- TasPython user group - OpenFest

COMPUTER SKILLS *Programming:* C, C++, Java, Python, UNIX shell scripting, Prolog, Lisp, Clips, nesC, MySQL, PostgreSQL, Javascript, Django, PHP, HTML, AJAX, CSS and others

Versioning Systems: Mercurial, Git, Subversion.

Matlab experience: linear algebra, nonlinear numerical methods, polynomials, telecommunications

Applications: L^AT_EX, XE_TE_X, BIB_TE_X, Open Office, and other common productivity packages for Linux and Windows platforms

Operating Systems: GNU/Linux

PUBLICATIONS Dimitris Leventeas, Konstantinos Aravanis: TasPython: Patras Python User Group. In the Journal of Python Papers (ISSN: 1834-3147) Vol 4, No 3, 2009

SEMINARS

Advanced Topics in Grid Tetnologies

March 2010

- Organised by the Research Academic Computer Technology Institute (RACTI), the Department of Computer Engineering & Informatics and the Greek Networking Research and Education (grnet)

Attitude to security cases, security improvevement and information retrieval.

October 2008

- Organised by the Research Academic Computer Technology Institute (RACTI) and the Regional Development Fund of the Region of Western Greece (RDF-RWG)

INTERESTS

Road Cycling, Movies