



Salvatore Tomaselli

Curriculum Vitae

Education

- 2011–2013 **Msc Computer Systems and Networks**, *Chalmers tekniska högskola*, Göteborg, Sweden, *GPA 4.2/5*.
- 2007–2011 **B.S. Computer science**, *Università degli studi di Catania*, Catania, Italy, *GPA 110/110*.
with honors

Publications

- Title Towards Lightweight Logging and Replay of Embedded, Distributed Systems
- Authors Salvatore Tomaselli, Olaf Landsiedel
- Description In this paper we introduce MILD; providing Minimal Intrusive Logging and Deterministic replay.
- In ASCoMS 2013
proceedings

Masters Thesis

- Title Debugging Wireless Sensor Networks with Incremental Snapshots
- Supervisor Professor Olaf Landsiedel
- Description This thesis introduced a tool to capture event from a wireless sensor network, where nodes use TinyOS, and allow deterministic replay of the network inside a simulator.

Bachelor Thesis

- Title Sviluppo di server web e sistema di caching per contenuti dinamici
- Supervisor Professor Giuseppe Pappalardo
- Description This thesis was focused on the implementation of an HTTP/DAV server that can cache and invalidate server-generated responses, leading to greatly reduced IO and CPU loads.

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📄 <http://ltworf.github.io/ltworf/> • <https://github.com/ltworf/>

Skills

Languages	In order of experience: Python, C, C++, nesC, Java, PHP, Javascript
Databases	PostgreSQL, administration experience as well MySQL, MongoDB, Redis, Elasticsearch
Frameworks	Django, Qt, Flask
Software	Debian, GNU Autotools, Git, SaltStack, Jenkins, unittest
Technical	Experience in making C code work on various POSIX platforms; using pthreads, atomic operations, networking. Familiar with the concepts of functional programming Programming on embedded systems, asynchronous or event-based.

Notable projects

Relational	Relational, a relational algebra parser/compiler/optimizer, used as educational tool in a few universities. Implemented in Python Internally can parse and compile queries to Python, and perform some optimizations on the parse tree. It provides a GUI for ease of use. https://github.com/ltworf/relational
lapdog	C++ daemon that uses ICMP+ARP to generate events upon appearing/disappearing of network devices. https://github.com/ltworf/lapdog
weborf	A HTTP/DAV server, implemented in C. https://github.com/ltworf/weborf
Canary	Dynamic library to monitor for heap overflows, implemented in C. https://github.com/ltworf/canary

Experience

- 2014- **C++ Software Engineer**, *Minerva Networks*, S. G. La Punta, Italy.
The company sells integrated devices to watch live programs or download on demand.
The C++ team provides a scalable version of the backend API.
My role includes the integration of Elasticsearch within the API, to provide the devices with full text search and filtering.
- 2013-2014 **Backend Python Developer**, *Duego*, Göteborg, Sweden.
The position involved writing and maintaining a REST API in Python for the clients to use, and managing the servers (production and staging).
The API code was based upon different technologies: Flask, Redis, Elasticsearch, Mongoddb. For the staging and production environment I had to work with AWS, autoscaling, Jenkins, Saltstack, graphite, New Relic and several tools that were developed in house.
- 2007-2012 **Student's server system administrator**, *Università degli studi di Catania*, Catania, Italy.
Maintain the Student server, install/configure services and develop web interfaces in PHP to use them.
Manage PostgreSQL database, mail service (Postfix+Dovecot) and webserver (Apache 2).
Implement a web interface to provide the users means to register projects, with git/svn access and a wiki.

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2006 **Developer**, *Tau Marmi S.r.l.*, Catania, Italy.

Develop a tool to connect with industrial machines and periodically store the log. Implement a client to connect and reproduce the GUI of the machine, showing the last known status. Develop a tool to count worked hours of the employees, and print monthly reports in PDF.

Social skills

I am an easy going person, passionate about software and about making things right.

Debian At the present time I am a Debian Maintainer (DM).

I maintain mostly packages in C and Python; the most used of them is xinetd.

Languages

Italian **Mothertongue**

English **Fluent**

French **Basic**

Interests

- Music
- SCUBA diving
- Board games
- Literature

Other

I am physically disabled, and I am mentioning it because some countries have specific legislation regarding it.

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