



# Salvatore Tomaselli

## Curriculum Vitae

### Education

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

Via Martiri d'Ungheria, 60 – Nicolosi, Italy 95030

☎ +46 (0)739124448 • ✉ [tiposchi@tiscali.it](mailto:tiposchi@tiscali.it)

📄 <http://ltworf.github.io/ltworf/>

## Skills

Languages	In order of experience: Python, 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	Good knowledge of design patterns, modular design and OOP, to organize larger projects. Experience in making C code work on various POSIX platforms. Familiar with the concepts of functional programming
Github	<a href="https://github.com/ltworf/">https://github.com/ltworf/</a>

## 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. <a href="https://github.com/ltworf/relational">https://github.com/ltworf/relational</a>
lapdog	C++ daemon that uses ICMP+ARP to generate events upon appearing/disappearing of network devices. <a href="https://github.com/ltworf/lapdog">https://github.com/ltworf/lapdog</a>
weborf	A HTTP/DAV server, implemented in C. <a href="https://github.com/ltworf/weborf">https://github.com/ltworf/weborf</a>
Canary	Dynamic library to monitor for heap overflows, implemented in C. <a href="https://github.com/ltworf/canary">https://github.com/ltworf/canary</a>

## Experience

- 2013-2014 **Backend Python Developer**, *Duego*, Göteborg.  
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.  
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.
- 2006 **Developer**, *Tau Marmi S.r.l.*, Catania.  
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.

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## 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.