# Vincent X. Michel

Software engineer, Python enthusiast and Free Software supporter

## Education

2008 - 2012

**Computer engineering** – Institut National des Sciences Appliquées – Rennes (France)

*Engineer’s degree (master/bachelor equivalent)*

2012 - 2013

**Computer Science** – Rochester Institute of Technology – NY (USA)

*Exchange program during 2 quarters*

## Professional Experience

2014 - 2017

**Software engineer at MAX-IV Synchrotron** – Lund (Sweden)

2017 - present

**Software engineer at European Synchrotron Radiation Facility** – Grenoble (France)

* Control system software for particle accelerators:
  + **Python** libraries for many kinds of hardware
  + Control system software, based on **Python** and [**Tango**](http://www.tango-controls.org/)
  + User interfaces (**PyQt** and command line)
* Software production methods:
  + Iterative and incremental development: **Agile/Scrum**
  + Direct interaction with machine operators and scientists
  + Unit testing (**nose**, **pytest**) and development of [test utilities](https://github.com/vxgmichel/pytango-devicetest)
  + Automated packaging and deployment with **Conda**, **Docker** and **Ansible**
  + Focus on GNU/Linux based distributions: **CentOS**, **Debian**
* Open-source [**Tango**](http://www.tango-controls.org/) community:
  + Bug reports and forum support for new comers
  + Maintaining of the [**PyTango**](https://github.com/tango-cs/PyTango) library (~ 300 downloads/month)
  + Publishing of [generic tools](https://github.com/vxgmichel/tango-gateway) for the community

## Other Experience

**Asynchronous programming and asyncio**

* [Pull request](https://github.com/python/asyncio/pull/273) to add [*run\_coroutine\_threadsafe*](https://docs.python.org/3/library/asyncio-task.html#asyncio.run_coroutine_threadsafe), merged in **asyncio** and **cpython**
* Maintaining two asyncio-based libraries: [**aioconsole**](https://github.com/vxgmichel/aioconsole) and [**aiostream**](https://github.com/vxgmichel/aiostream)

**Competitive programming and mathematics**

* About 150 problems solved on [**ProjectEuler.net**](https://projecteuler.net)
* Attended 3 [**Google Code Jams**](https://code.google.com/codejam/)

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