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

2014-2016 **Software engineer at MAX-IV Synchrotron** – Lund (Sweden)

- Control system software for particle accelerator:
  - **Python** libraries for many kinds of hardware
  - Control system software, based on **Python** and **Tango**
  - 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**
  - Automated packaging and deployment with **Jenkins**, **Docker** and **Ansible**
  - Focus on GNU/Linux based distributions: **CentOS**, **Debian**
- Open-source **Tango** community:
  - Bug reports and forum support for new comers
  - Maintaining of the **PyTango** library (~ 3000 downloads/month)
  - Publishing of **generic tools** for the community

Other Experience

Asynchronous programming and asyncio

- **Pull request** to add *run_coroutine_threadsafe*, merged in **asyncio** and **cpython**
- Asyncio-based library for asynchronous console and interfaces: **apython**

Competitive programming and mathematics

- About 140 problems solved on **ProjectEuler.net**
- Attended 2 **Google Code Jams**

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