

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**
 - 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 **Conda**, **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 (~ 300 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**
- Maintaining two asyncio-based libraries: **aiconsole** and **aiostream**

Competitive programming and mathematics

- About 150 problems solved on **ProjectEuler.net**
- Attended 3 **Google Code Jams**