

# Vincent Michel

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Software engineer, Python enthusiast and Free Software supporter

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## 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**