

# Radek Lonka

[lonka.radek@gmail.com](mailto:lonka.radek@gmail.com)



Linux, mobile, embedded system developer Desktop and Web applications development C++, Python, Qt, QML, Javascript  
Open-source development, Agile (SCRUM, Kanban, TDD) development  
2D/3D data visualization, Developing, testing, deploying and maintaining production quality code, Continuous integration, Jenkins, Jira, Subversion, Git Scientific Python (SciPy, numpy, Pandas, ...) Flask web framework, RESTful API design and implementation SQL and NoSQL database (MongoDB, MySQL) programming

## Skills

- Qt
- Python
- Open Source
- Software Development
- Software Engineering
- Object Oriented Design
- Trolltech Qt
- Mobile Devices
- Continuous Integration
- Debugging
- Non-profit Volunteering
- QML
- Linux
- Git
- Agile Methodologies
- Open Source Software
- Design Patterns
- Nokia Qt
- MeeGo
- Unix
- UML
- C++
- Embedded Linux
- Subversion
- Scrum
- Software Design
- Mobile
- Mobile Applications
- Maemo
- MySQL
- GNU C++

## Experience

### NTNU

04 / 2015 - Present

#### Senior Engineer

Software engineer at IndEcol Setting up software infrastructure together in cooperation with scientist and researches for LCA, IO and MFA. Defining architecture and design of software frameworks and tools, setting up processes and best practises to achieve continuous development of software. Investigating and using Big Data technology (hadoop), SQL and NoSQL databases (MySQL, MongoDB) for data retrieving and storing, Scientific Python (SciPy, Pandas, numpy, etc.) for data processing and analyzing and data visualization frameworks (matplotlib, D3js) for visualization of data. The infrastructure also includes setting web technology using Flask framework and setting up and complementing web, database and application servers for different projects.

### Electromagnetic Geoservices ASA

09 / 2012 - 03 / 2015

#### Software Engineer

EM data processing, 2D/3D Data visualization, UI/UX using PyQt, Qt, QML, developing and maintaining first generation of EM processing scripts for the Geology & Geophysics department using Python, C++. Starting

new project to create in-house next generation application (Qt5, C++11, VTK Visualization ToolKit) for data processing and 3D visualization of internal EM data.

## **Nokia**

11 / 2010 - 09 / 2012

*Software Engineer - Linux mobile platform at Ulm, Qt Support Engineer at Oslo,*

At Ulm: Working on new Linux mobile mobile platform - middleware developer. Developing Mobile Network Connectivity stack (C++/Qt, bash, Python). Defining and implementing new API service, using Agile Software Development methodology (SCRUM, Kanban, TDD), collaborating with other teams. Participating on UI/UX design.

At Oslo: Technical support for Qt Framework with focus on Linux, embedded Linux and all Qt modules - Core, GUI, SQL, Networking, Svg, QML, Widgets...

## **Symphony Teleca**

09 / 2009 - 10 / 2010

*Software engineer*

Working at Nokia on Linux based mobile platform: Maemo, MeeGo - Fremantle/Harmattan. Middleware developer. Defining, implementing and testing new API of Accounts&SSO service using Qt, C++, Python.

<http://gitorious.org/accounts-sso/accounts-qt>,

<http://gitorious.org/accounts-sso/signon>, <http://gitorious.org/accounts-sso/accounts-glib>

## **TietoEnator Czech s.r.o.**

10 / 2008 - 09 / 2009

*Software specialist*

Consultant with focus on Qt, C++, Linux.

## **ADPP Mozambique, Humana People to People**

01 / 2000 - 03 / 2003

*Development instructor / Volunteer*

Teacher, nurse, developing website and other different kind of jobs at ADPP schools at Mozambique. Opening shops, setting up warehouses, marketing researches, network and computer administrator in different locations like Lithuania, Estonia, Finland, Norway, Belarus, Czech

### *Education*

## **Palacký University in Olomouc**

2005 - 2008

*Bc, Computer science*

Linux and Qt activities

## **Vocational school in Hornsjo - Norway**

1999 - 2000

*NA, development instructor*

## Gymnasium Karvina

1989 - 1993

*school leaving exam , Mathematics / Physics*

### *Interests*

Software management and development, Agile development, Qt, Python, C++ , data visualization, SQL, NoSQL, Big Data, Data engineering, new technologies, travelling, different outdoor activities, reading.

### *Certifications*

## Qt Specialist

05 / 2011

*Nokia · License: NQT001645*

### *Languages*

- English
- Czech