

# Kamil Machnicki

SENIOR SOFTWARE ENGINEER · C++ DEVELOPER

Wrocław, Poland

☎ (+48) 693 168 640 | ✉ kamil.machnicki@hotmail.com | 📱 kmachnicki | 🌐 kmachnicki

## Skills

- Technologies**
  - **Advanced skills** - C++ 11/14/17, STL, Boost, Qt, Design patterns
  - **Intermediate skills** - Python, JavaScript (Node.js), Git, Subversion, GNU Linux/Unix
  - **Tools familiarity** - Gtest, Gmock, Valgrind, Clang, Cppcheck, Klocwork, SonarQube, Gitlab, Github
- Languages**
  - **Polish** - native speaker
  - **English** - professional working proficiency
  - **German** - elementary proficiency

## Experience

### Sii/QIAGEN

SOFTWARE ENGINEER, C++

Wrocław, Poland

Nov. 2018 - now

- Member of a core team developing UI and control software for a new automated DNA/RNA purification instrument.
- Qt Framework and C++17 standard were used in production.
- Obtained knowledge in molecular diagnostics, medical biology and digital electronics.

### Nokia Networks

SOFTWARE ENGINEER, C++

Wrocław, Poland

Jul. 2014 - Jan. 2018

- Developed embedded functionalities and code maintenance for base transceiver stations (BTS).
- Participated in multiple projects regarding backend software development in C++ using newest language standards C++11/14.
- Cooperated with other development, testing and integration teams in a vast multi-national environment in Scrum methodology.
- One of the projects required backend services development in JavaScript using Node.js and scripting in Python.
- Possessed knowledge regarding radio technology with its 2G/3G/4G (GSM, WCDMA, LTE) standards.

## Education

### Wrocław University of Science and Technology

M.Sc. IN COMPUTER SCIENCE AT ELECTRONICS DEPARTMENT, APPLIED COMPUTER ENGINEERING IN MEDICINE SPECIALIZATION

Wrocław, Poland

Feb. 2016 - Sep. 2017

- Numerous projects regarding Machine Learning and Artificial Intelligence done in Python.

### Wrocław University of Science and Technology

B.Sc. IN COMPUTER SCIENCE AT ELECTRONICS DEPARTMENT, INTERNET ENGINEERING SPECIALIZATION

Wrocław, Poland

Sep. 2012 - Feb. 2016

- Gained knowledge of low-level computer architecture and design as well as programming techniques and electronics.
- Was an active member of a game development academic club TKGames.

## Certifications and Courses

**SEP (Polish Society of Electricians)** - Permission to operate electric devices of voltage up to 1kV

2018

**Infotraining** - Design Patterns in C++ 14

2017

**Polish Testing Board** - ISTQB Certified Tester Foundation Level

2016

**Nokia Networks** - Practical Aspects of Software Development

2014

**Cisco Networking Academy** - CCNA Routing and Switching: Introduction to Networks

2014

## Notable projects

**Application of selected machine learning algorithms to the behaviour controlling of non-player characters for a chosen video game**

2017

PYTHON, MACHINE LEARNING, ARTIFICIAL INTELLIGENCE, REINFORCEMENT LEARNING, ALGORITHMS

**Web portal for editing, compiling and running C++ code, with code quality metrics**

2016

PYTHON/C++, CODE EXECUTION SANDBOXING, VIRTUALIZATION, LINUX CONTAINERS, DOCKER, VAGRANT, C++ CODE QUALITY MEASUREMENT

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KAMIL MACHNICKI · CURRICULUM VITAE