| PERSONAL INFORMATION | **Lukas Erlacher** |
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📍 Hofzaunweg 6a, 83677 Greiling (Germany)

☎ 08041-41986    📱 0178-9688409

✉ luke@lerlacher.de (personal)
erlacher@in.tum.de (TUM)
🌐 www.lerlacher.de

Sex Male | Date of birth 24 Jun 1988 | Nationality German

## WORK EXPERIENCE

**01 January 2004 – Present**

### Freelance web consulting
- Acquisition, setup, administration, and maintenance of PC workstations
- Setup, administration, and maintenance of small LANs
- Setup, administration, and maintenance of web servers, databases, webhostings
- Web development (PHP, HTML, MySQL) for websites and web applications
- Design, development, and maintenance of desktop database applications (MS Access, OO.o Base)
- Setup, customization, maintenance, and content formatting for websites, CMS and boards (Mambo, Joomla!, phpBB)
- Design, content, layout, copy-editing, and prepress for handouts, flyers, posters

**19 October 2009 – 19 February 2010**

### Tutor "Introduction to Computer Science" (for non-Informatics studies)
Java tutorial course for beginners

**01 April 2010 – 31 March 2014**

### Computer Science Tutor
Technische Universität München

Tutor for the following courses:
- Introduction to Computer Networking and Distributed Systems (lecture)
- Introduction to Computer Architecture (lecture and project course)
- Aspects of Low-Level Programming for Games Development (project course)

**01 January 2011 – 29 February 2012**

### Computer programmer
Klinikum rechts der Isar, München

Development of Software to model, visualize, and control medical systems
- Development in and for Windows (XP and 7, 32-bit and 64-bit), in C# / .Net Framework 3.5 and 4
- Automatic and semi-automatic feature recognition algorithms
- Tool development
- Optimization algorithms

## EDUCATION AND TRAINING

**01 October 2012 – 31 April 2015**

### Informatik Master of Science

Technische Universität München

- Applied subject Electrical Engineering, Interdisciplinary Project "Development of the Moep80211 Wireless Mesh Network"
- Master Thesis "Latency Optimisations in Linux Networking"

**01 October 2008 – 31 September 2012**

### Informatik Bachelor of Science

Technische Universität München

- Applied subject Medicine, interdisciplinary project "Human Bone Segmentation"
- Bachelor Thesis "Link-Layer Forward Error Correction for Wireless Mesh Networks"

**20 September 1999 – 31 July 2008**

### Abitur / Allgemeine Hochschulreife

Gabriel-von-Seidl-Gymnasium Bad Tölz

- AP Physics, English
- Extracurriculars Delphi Programming, Java Programming, Web Programming (HTML, PHP, MySQL)

**12 September 1995 – 31 July 1999**

### Primary education

Volksschule Reichersbeuern

## PROFESSIONAL SKILLS

### Programming Languages

Proficient:
- Python
- PHP
- C#
- C

Intermediate:
- OCaml / Standard ML
- Ruby
- JavaScript
- VHDL

Beginner:
- C++
- Haskell

### Frameworks / Stacks / Environments

Proficient:
- LAMP web applications
- C# .Net / WPF desktop applications
- ARM-based Microcontrollers (NXP LPC, Infineon XMC)
- Linux administration

Intermediate:
- Rails
- MS Office (Access, VB) applications
- Twisted, Django (Python web frameworks)
- OpenGL

Beginner:
- Node.js
- DirectX
- Bootstrap

### Tooling

Proficient:
- Git VCS
- Saltstack Configuration Management
- Gitlab Collaboration Platform

Intermediate:
- Subversion VCS
- Cmake

## EXTRACURRICULAR AND PERSONAL PROJECTS

**July 2004 – Present**

### Volunteer Fire Brigade Service

Freiwillige Feuerwehr Greiling

- Level 2 Crew Training
- Performance Badge Silver
- SCBA Training

**September 2013 – Present**

### Electronics and Software Development

TUfast e.V. ECO Team

- Design and construction of a high-efficiency battery electric prototype vehicle
- Low level embedded peripheral programming, drive control system design and programming, communication bus design and programming, system integration
- Interim propulsion group leader (2014)

**April 2014 – Present**

### Software Library Development

OnionOO (Tor Project)

- Design and development of an API wrapper library for the OnionOO REST service
- Python 2/3 software distribution
- Transparent data caching

## PERSONAL SKILLS

**Mother tongue(s)**   German

**Other language(s)**

| UNDERSTANDING | | SPEAKING | | WRITING |
|---|---|---|---|---|
| Listening | Reading | Spoken interaction | Spoken production | |
| C1 | C2 | B2 | B2 | C1 |

English

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference for Languages

**Driving licence**   A, B