


PERSONAL INFORMATION

Lukas Erlacher

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Nationality German

WORK EXPERIENCE

2015 – 2017

Systems and Operations Engineer

Department of Computer Science, Technical University of Munich, computing services division

Infrastructure maintenance and internal software development

- Sun Solaris and Linux Servers, both hardware and ESX Cluster
- Mail server, DNS server, repository mirrors, web proxy, configuration management
- User and host database
- Monitoring

2011 – 2012

Computer Programmer

Klinikum rechts der Isar, Munich, Orthopedics division

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

2010 – 2016

Computer Science Teaching Assistant

Technical University of Munich

TA for the following courses:

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

All of these courses involved 50% instruction and 50% designing, programming and maintaining support systems for the project labs, e.g. allocating computing resources to students and automated version control, testing, and grading systems.

2009 – 2010

TA “Introduction to Computer Science” (for non-Informatics studies)

Java tutorial course for beginners

2004 – 2012

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

EDUCATION AND TRAINING

01 October 2012 – 31 April 2015

Informatik (Computer Science) Master of Science

Technical University of Munich

- 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 (Computer Science) Bachelor of Science**

Technical University of Munich

- 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 (High school diploma)**

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 (2.7 / 3.5+)
- C#
- C
- Lua

Intermediate:

- OCaml / Standard ML
- Ruby
- JavaScript
- VHDL

Beginner:

- C++
- Haskell

Frameworks /
Stacks /
Environments

Proficient:

- LAMP web applications
- MySQL, Postgres, SQLite
- C# .Net / WPF desktop applications
- Postfix / Dovecot / Roundcube / SpamAssassin E-Mail Infrastructure
- ARM-based Microcontrollers (NXP LPC, Infineon XMC)
- Linux administration
- LXC (Linux Containers)
- Linux-based engineering of scalable and redundant computing services

Intermediate:

- Docker
- Rails
- Django, Flask (Python web frameworks)
- OpenGL, DirectX

Beginner:

- Node.js
- Bootstrap

Tooling

Proficient:

- Git VCS
- Saltstack Configuration Management
- Gitlab Collaboration Platform

Intermediate:

- Subversion VCS
- Cmake
- Appveyor & Travis Continuous Integration and Delivery

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)
- Developed the software for all control systems for ELi15 vehicle, 2015 winner of Shell Eco Marathon and Educ Eco Toulouse competitions
- Refit of ELi14 vehicle for 2016 Guinness World Record “Most Efficient Electric Vehicle”

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)

English – CEFR

English – TOEFL

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C1	C2	C2
30 (HIGH)	29 (HIGH)	28 (HIGH)		29 (HIGH)

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference for Languages](http://www.cerl.eu/)

Driving licence

A, B

REFEREES

Technical University of Munich
Computing Services Division

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RBG
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85748 Garching, Germany

 www.in.tum.de/en/it-service-group-rbg-of-tu-munich/service/team/leitung.html

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TUfast ECO TEAM
Drivetrain Division

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(Now TQ Group)

 tufast-eco.de/en/team-2/tufast-eco-team-2014/

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Technical University of Munich
Networking Chair

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