

# **Florian Knorn**

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**Note:** A much more condensed version of my CV, albeit in German, can be found here  $\square$ .

## Education / Qualifications

2022	AWS Certified Cloud Practitioner Amazon Web Services Training & Certification, Validation No. WED0491KQBF11H53	
2021	MS Teams Administrator Associate (MS-700) Microsoft 365 Certified, Certification No. H967-1175	
2021	Leadership Coaching Katahdin Training & Consulting / Johannes Buhr	
2019	RIPE Database Associate RIPE Network Coordination Centre Training	
2017	Leadership Development Program Aspirantprogrammet by IP-Only AB, Sweden	
2017	RIPE LIR + RIPE Database Official RIPE Network Coordination Centre Training, License No. LDB20170003	
2016	JNCIA (Juniper Networks Certified Associate - Junos) Official Juniper Certification, License No. JPR00262088	
2014	CCENT + CCNA (Routing & Switching) Official Cisco Certification, License No. CSCO12675245	
2011	<b>Doctor of Philosophy (PhD)</b> Thesis: "Topics in Cooperative Control" National University of Ireland, Maynooth	
2006	<b>Engineer's Degree (DiplIng.)</b> with "summa cum laude" Program: Systems Engineering and Technical Cybernetics Otto-von-Guericke Universität, Germany & University of Newcastle, Australia	
2001	Abitur and Baccalauréat Specialisation: "Série S" Französisches Gymnasium Berlin, Germany	

- Systematic tackling of complex problems
- Research and Development
- Leadership in modern, value-based companies
- Fast learner and hands-on problem-solver with can-do attitude
- Broad international background
- Languages: German, English, French & Swedish (all spoken & written fluently)
- Datacenter & infrastructure management
- Computer Networking (Fortigate, Juniper, Dell, Cisco, Nokia / Alcatel-Lucent, Huawei, Extreme Networks, HP, Trendnet)
- Fibre & copper network infrastructure
- Netbox, PRTG, LogicMonitor, Graylog, Proxmox, pfSense, oxidized, ansible, glusterfs, Apache2, git, HAProxy, OpenVPN, ....
- Web & script development (Javascript, HTML, PHP, SQL, Python, Bash)

Sr. IT Infrastructure Architect

- Linux, Mac OS, Windows

## **Employment History**

#### 2022 – present HelloFresh SE (Berlin, Germany)

hellofresh.com

#### Background (2022)

HelloFresh SE is a publicly traded meal-kit company based in Berlin, Germany. It is the largest meal-kit provider in the United States, and also has operations in Australia, Canada, New Zealand, Europe (GB, D-A-CH, Benelux, France, Italy and Scandinavia) and Japan. It has been listed on the Frankfurt Stock Exchange since its IPO in November 2017 and generated, across its range of brands, about 6 billion EUR in net revenue in 2021 with its 20'000+ employees based off its over 8.5 million active customers. (Quoted from Wikipedia)

#### Key Responsibilities / Initiatives

- Concerning on-site server rooms in the distribution centres, collect and evaluate requirements together with internal stakeholders and external providers, perform risk analysis and finally synthesise design specification and template designs for future server rooms.
- Conduct technical analysis and propose robust and scalable industry-standard infrastructure solutions, creating architectural standards across the Operations IT landscape, defining documentation standards, SOPs, design specifications and guidelines
- Enable, plan and facilitate on-site deployment of AWS Outpost racks
- Ensure proper execution and implementation of the server rooms and contained infrastructure that are being built as part of a large scale construction project (the next generation of automated fulfilment centre near Barleben, Germany)

#### 22019 – 2022 ITK communications (Berlin, Germany)

itk-com.de

Head of Infrastructure & Development

#### Background (2021)

ITK Communications is a leader in bespoke IT- und telecommunication solutions encompassing all business communication aspects of large corporations and medium sized companies in Germany and abroad. Independent of any specific manufacturer, we consult and implement tailor made solutions for your organisation, be it on-site, cloud based or hybrid out of one of our central, high security data centre locations. ITK boosts your efficiency and productivity, makes your life easier and helps to reduce costs in diverse areas such as cloud communication, telephony, IT, network, audio- and video conferencing, managed services, SIP trunk and lines. As part of the fast growing Medialine Group we can offer an even broader portfolio of products and solutions in the larger areas of IT infrastructure, managed & cloud services and business solutions.

#### Key Responsibilities / Initiatives

- Lead a small team of network specialists
- Operate, design and expand existing and new systems in our colocation presences
- Develop internal OSS and BSS tools (using web technologies and scripting) to facilitate, automate and standardise internal processes
- Implement documentation solution (netbox) and define and execute documentation process of entire infrastructure
- Restructure and take monitoring solution (PRTG) to new level, and augment with centralised syslog gathering and monitoring for entire infrastructure (Graylog)
- Research and implement automated configuration backup system (oxidised)
- Partake in maintenance and upgrade works of our data centre based systems as well as some on-location jobs for various customers
- 2016 2019

IP-Only AB (Uppsala, Sweden) Network Specialist / Team Leader ip-only.se

Background (2019)

IP-Only is a leading provider of high-capacity fibre based data communication and datacenter services in Sweden. IP-Only owns and operates a high-capacity fibre network linking the Nordic capitals Stockholm, Oslo, Copenhagen and Helsinki to other European hubs such has Frankfurt, London or Amsterdam as well as Sweden's second and third largest cities Gothenburg and Malmö. In addition, it owns a Metro Area Network (MAN) in Uppsala and several other municipalities to provide an open, purely fibre based network for other service providers to deliver to triple-play services to end-customers. Furthermore, it operates several data centres supporting co-location, CDN and cloud based product offerings to corporate clients. IP-Only was founded in 1999 and in total well over 1 billion EUR has been invested in its network infrastructure. The company employs currently around 560 people with a EBITDA in 2018 of around 90 million EUR.

#### Key Responsibilities / Initiatives

- Team lead for a dozen network specialists in a company building on value-based leadership principles and emphasising initiative taking, passion, bottom-up innovation and team spirit in order to challenge the status quo of the market.

- Implementation and configuration of data communication services for IP-Only's business customers, such as L2/L3 services, as well as residential FTTx services, IPTV/ VOD & open networks reaching SDU/MDU in various municipalities.
- Design and development of support tools and scripts to automate, standardise and facilitate internal processes and workflows, in particular relating to network configuration-generation, auto-provisioning and documentation-generation.
- Network design, development and troubleshooting, including tight interaction with customers for their new installations as well as 3rd-line support for business customers.
- Design and development of a documentation system "synthesis" platform to provide a one-stop shop overview of a given service / customer / piece of equipment
   – sourcing from all the various systems at once.
- Network documentation quality improvements by applying business-logic, convention based and cross-correlation based bulk corrections to existing datasets in the various documentation systems to ensure clean data to not only improve customer support and NOC operations, but also to make informed business decisions based on it.

#### 2014 – 2016 Borderlight AB (Uppsala, Sweden)

borderlight.net

System Developer / Full Stack Developer

#### Background (2016)

Borderlight AB is a Swedish Telecom operator whose business idea is to design, deploy, operate and administer high-speed open network infrastructures for data communication that handle delay sensitive traffic and best-effort traffic in an efficient and secure manner while allowing different market players to share the secure, QoS assured infrastructure to increase their productivity and profitability. Today Borderlight works with business development and operations of Metro Networks incorporating a powerful service platform for full triple-play services (Internet, IP Telephony, IPTV and video-on-demand).

#### Key Responsibilities / Initiatives

- Development of a new datacenter, from all things physical like racks, server hardware and electrical power systems to networking, virtualisation platforms, network storage cluster, provisioning, configuration and also monitoring and instrumentation of various services and platforms running in the datacenter and the virtual servers.
- Strong focus on high-availability and system redundancy in all aspects of the data center (power, storage, virtualisation, networking, cooling).
- Network security, multi-tiered firewalls and VPN services.
- End-customer service during on-call periods, troubleshooting and fixing a broad range of networking problems and general infrastructure incidents in fibre-optic networks.
- Support system development, in particular of a distributed monitoring system.
- Web portal development incl. building a trouble ticket handling system from scratch.
- Detailed documentation of all developments.

#### 2012 – 2014 ResTech Pty Ltd (Newcastle, Australia)

R&D Engineer

#### Background (2014)

ResTech provides innovative product development solutions in electrical and electronic engineering by offering clients unique access to experienced research and development personnel. Combining contemporary and fundamental knowledge with extensive expertise in a range of fields, ResTech offers product proof of concept experimentation, prototyping, pilot builds and pre-commercialisation activities, along with scientific consultancy and technical engineering. Established in 2004 as a collaboration between the University of Newcastle and Ampcontrol.

#### Key Responsibilities / Initiatives

- Industrial research and development work
- Voltage regulation strategies in power distribution as well as mining electrical networks
- Panoramic photography based asset management systems
- Web frontend development for a novel safety relay for variable speed drives (this product subsequently won the Australian Engineering Excellence Awards)
- Project management, high speed videography and data analysis for explosion tests (to simulate electrical arc faults)

#### 2011 – 2019

Knorn Media

knorn-media.com / pano-guru.com

Founder / owner

#### Background

Knorn Media was a registered partnership started in Ireland to offer various multimedia services in Ireland, including web- and mobile app development, photography, videography and sound recording services. It continued as a registered sole proprietorship in Sweden, providing consultancy and training services in the field of panoramic photography and virtual-reality applications.

#### Key Responsibilities / Initiatives

To name a few, conception, production and maintenance of two iOS Apps ("The Maynooth App" & "Maynooth Emergency"), panoramic photography and virtual tour creation, event photography, recording of various live concerts, filming and production of academic seminars, summer school course material as well as figure skating shows, creation of marketing materials (web design, posters, social media and video spots), etc.

#### 2011 – 2012 Hamilton Institute (Maynooth, Ireland)

Post-Doc

hamilton.ie

#### Background

The Hamilton Institute is a multi-disciplinary research centre within the National University of Ireland, Maynooth. The Institute seeks to provide a bridge between mathematics and its applications in information & communication technologies as well as biology.

#### Key Responsibilities

- Modelling dynamics of a suspension system for electric vehicles with in-wheel motor.
- Tutoring and course support of a control theory lecture.

#### 2007 – 2011 Hamilton Institute (Maynooth, Ireland)

hamilton.ie

PHD Student

#### Key Responsibilities

- Four years research as part of Ph.D. programme, initially focussing on anomaly detection in network appliances (Prof. D. Leith), then theory of positive systems, cooperative control and constrained consensus in multi-agent systems (Prof. R. Shorten).
- Applications included wireless sensor networks and fleets of electric vehicles.
- Additional responsibilities included tutoring of control theory course; video and audio recording of the Institute's seminars and subsequent development of a video record-ing and processing workflow.
- Continuation of research and tutoring work as post-doc.

#### 2006 – 2007 Technische Universität Berlin (Germany) control.tu-berlin.de

## Research Assistant Background

The Technische Universität Berlin is a research university located in Berlin, Germany and one of the largest and most prestigious research and education institutions in Germany.

#### **Key Responsibilities**

Six months of research as well as teaching assistance; tutoring of introductory control theory labs; design and development of a new institute homepage.

#### 2005 – 2006 Daimler Research & Technology (Böblingen, Germany)

Internship

#### Background

The (formerly) DaimlerChrysler Research & Technology centre in Böblingen, Germany, hosts a range of research groups for one of the world's largest and most innovative automotive companies.

#### Key Responsibilities

Six months internship working on the control of an active hydraulic suspension in Prof. Jens Kalkkuhl's vehicle system dynamics group.

### Patents

#### DE102006024366.8: "Device for the control of the forward movement of a vehicle"

Sole inventor of a concept that complements the traditional cruise control: Rather than keeping the car's speed constant (regardless of consumption), the invention keeps the gas consumption constant. This offers a number of advantages over the classic approach (in particular relating to fuel economy, consumption predictability, and driving comfort). Filed with Daimler Research & Technology.

## Volunteering / Social Commitment

#### 2015 - 2019, active member & vice-president Uppsala Skridskoklubb, Sweden

Uppsala Skridskoklubb offers a broad range of activities for children, adolescents and adults so that as many as possible get a chance to learn figure skating, at all levels, from novice to elite level. I contributed with regular board work, organisational matters, fundraising, and communication between coaches, parents and skaters. Furthermore I handled "anything technical" (such as web presence, accounts and systems, but also fully hands-on work during shows, competitions and other events with lighting and sound systems, as well as video recording and production, etc).

#### 2013 – 2014, volunteer at the Mission to Seafarers, Newcastle, Australia

I helped out with general listening to the sorrows of, cheering up of and giving much needed hugs to seafarers, driving the minibus to get them on and off the vessels and into town, and also with some IT and systems administration for the computers provided at the Mission.

#### 1999 - 2003 & 2012 - 2014, volunteer at AFS Intercultural programs

Having spent a year on a farm outside Christchurch, New Zealand, as part of AFS' intercultural student exchange program, I strongly believe in the huge value and life-changing opportunity such an experience can be for young people. Since then, I volunteered for the organisation both in Germany and Australia (supporting hosted students, helping at various camps, etc.).

## Scholarships

#### 2003 – 2006, scholar of the "Studienstiftung des Deutschen Volkes"

The German Academic Scholarship Foundation is Germany's largest, oldest and most prestigious scholarship foundation. In line with its statutes, it supports "the university education of young people who, on account of their exceptional academic or artistic talents and their personalities, can be expected to make an outstanding contribution to society as a whole". The Studienstiftung is non-political, non-denominational and ideologically independent.

(Quoted from Wikipedia)

## Scientific Publications

10 fully peer-reviewed journal and conference publications, all listed here D.

Referees / References			
<b>Robert Wolff</b> Line manager	CTO at ITK Communications GmbH r.wolff@itk-com.de		
<b>Jeanette Kumlemark</b> Line manager	Head of Planning, Network & T	echnology at IP-Only AB jeanette.kumlemark@ip-only.se	
<b>Johan Lundqvist</b> Not my direct manager, but h	COO of Borderlight AB at best insight into my work	johan.lundqvist@borderlight.net	
<b>Tim Wylie</b> Not my direct manager, but ha	CTO of Ampcontrol Pty Ltd at best insight into my work	tim.wylie@ampcontrolgroup.com	
More available on request.			

Florian Knorn

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