DR PETER W.E. SCHMIDT
London, U.K.
pweschmidt@protonmail.com
(+44) 07748 185496
GitHub account: pweschmidt
https://pweschmidt.github.io

SUMMARY

General: *excellent communication and presentation skills; experience in podcasting and public speaking; building engineering and cross-functional teams; leading and promoting community projects; advocate of Open Access, Data and Software in science*

Software Management: *Line management of medium to large teams; agile methodologies (Scrum/XP); project management; 3rd party/supplier management; client/stakeholder management*

Recent Technologies
- **Web:** *JavaScript/React, Python, HTML, XML/XSLT, JSON*
- **Cloud:** *AWS, Terraform*
- **Mobile:** *Java, Swift*
- **Development Tools**: *Docker, Jupyter, PyCharm, Visual Studio Code, XCode, GIT*

Languages: *German (native), English (proficient), French (DELF B2)*

Education:
- *Ph.D. (Physics, University Hamburg, Germany) 1997,*
- *B.Sc. Molecular Biology (Birkbeck College, London, UK) 2005*

Nationalities: *German, British*

Other: *RSE Society member - https://society-rse.org ; Fellow of the Software Sustainability Institute - https://www.software.ac.uk; CERN alumnus; history of volunteering, e.g. Terrence Higgins Trust https://www.tht.org.uk*

University College London (UCL), UK   Dec 2019 – Now
Senior Research Software Engineer
Reporting to the Head of the Research Software Development Group. Part-time since January 2022.
In my role:
- I design software solutions and lead teams to build reliable and sustainable software for research projects (Python, JavaScript, Swift),
- build a cross-functional team to enhance cloud capabilities for research applications,
- liaise with key project stakeholders and manage project budgets.
- I am also responsible for recruitment, onboarding of new staff members and line management

Podcaster
- Creator and presenter of the podcast show 'Code for Thought' https://codeforthought.buzzsprout.com to support and promote the growing community of research software engineers in the UK and abroad.
- Close collaboration with the Software Sustainability Institute and Society for Research Software Engineering as well as with RSE communities outside the UK.

Elsevier Ltd, London, UK (scientific publisher)   June 2013 – Nov 2019
Solutions Architect Elsevier   *July 2017 – Nov 2019*
Reported to the Lead Enterprise Architect in Elsevier/Research Technologies. I designed and was responsible for delivering optimised search solutions for Elsevier products and improving user data management and security. I closely liaised with engineering teams to help deliver high quality products.
Highlight: *company aware for organising and running of a cross-company workgroup (search optimisation)*

Manager Software Engineering (iOS/Android teams) – Lead iOS Engineer Elsevier   *June 2013 – July 2017*
Reported to the Director of Mendeley. Built and led an iOS/Android team for the Mendeley app from scratch.
Highlights: *doubled monthly usage of the Mendeley app within a year and helped further increases later; built a community of mobile engineers across Elsevier.*

Further Employment History

Alfresco Software Ltd, Maidenhead, UK *(open-source content management)*   ***May 2012 – May 2013***
Senior iOS Engineer
Reporting to the Development Manager in Alfresco. Senior and lead engineer of the iOS libraries (Objective-C).
Contributor of the open-source Apache OpenCMIS project.
Highlight: Presented SDK and libraries at a developer community conference in San Jose, US in Nov 2012.

Nokia (Symbian Software), London, UK *(OS for mobile devices)*   ***2007 – Apr 2012***
Development/Engineering Manager (Nokia/Symbian)
Reporting to the Senior Management. Led large engineering as well as offshore contracting teams. Managing operations of part of the Symbian OS (audio/graphics).
Highlights: awarded for significant contributions to the launch of the Nokia N8 in 2010. Significant contributions to the successful transformation of Symbian to a scaled agile software development organisation

Sibelius Software/Avid, London, UK *(music notation software)*   ***2005 – 2007***
Senior Software Engineer/Scrum Master
Reporting to the Chief Technology Officer. Responsible for the delivery of 3 foreign language versions of "Sibelius" software. Also, responsible for the Web-browser based music purchasing tool "Scorch".
Highlight: 30% increase in revenue from online music purchases through the "Scorch" tool

Sony, Basingstoke, UK *(electronics manufacturer)*   ***2000 – 2004***
Agile Team Leader & Senior Software Engineer
Reporting to the Department Manager for Broadcasting and Professional Europe. Responsible for implementing and delivering innovative R&D digital media solutions based on C++, Java, XML/XSLT. Delivering high quality software utilising Agile eXtreme Programming methodologies. Contributor to IEEE on an international format (MXF).
Highlight: Best digital software solution at the National Association of Broadcasting trade show in Las Vegas, 2001.

Royal Brompton & Harefield NHS Trust, London, UK   ***1997 – 2000***
Research Fellow and Research Project Lead
Reporting to the Head of Medical Physics. Responsible for developing/delivering medical image software tools and leading a clinical audit in close collaboration with senior cardiology consultants.

University of Hamburg, Germany   ***1991 – 1997***
Research Fellow
Reporting to the Head of Nuclear Physics Department. Responsible for analysing & delivering particle physic research results obtained at an experiment (Crystal Barrel) at the research facility **CERN**/Switzerland. Delivered and maintained large complex software for use in **data analysis** (C++/FORTRAN). **Tutored** undergraduate students.

Publication Examples

- An Energy Efficient Implementation of Differential Synchronisation on Mobile Devices –   *(V. Pammer, J. Simon, P. Schmidt), Mobiquitous London* **2014**
- File Formats for Storage, chapter 2.9 *Chapter in 'Broadcast Engineer's Reference Book,' Focal Press/Elsevier* **2004** *(Editor Joe Tozer) p. 265-277*
- XML Based Dictionaries for MXF/AAF applications *IBC* **2002** *– P Schmidt, G Sylvester-Bradley, D Beenham (paper and presentation)*
- Conversion factors for the estimation of effective dose in paediatric cardiac angiography *Phys. Med. Biol. 45* (**2000**), *3095 – 3107, P Schmidt, D Dance, E Castellano, C Skinner, J McNeill*
- Estimation of radiation induced risk in paediatric cardiac angiography *European Congress of Radiology, Vienna* **2000** *(p.151), P Schmidt, D Dance, E Castellano, C Skinner, J McNeill, E Shinebourne.*
- Ph.D. Thesis: Study of proton-antiproton annihilation to $\pi^0 K^+ K^-$ (Crystal Barrel experiment/CERN – Universität Hamburg, , 1996)