Aperçu

Adeptly navigating the intersection of medical software development and regulatory compliance ◆ Dedicated to harmonizing technical innovation with stringent quality standards ◆ Skilled in communicating complex data and concepts to diverse stakeholders

Professional Experience

Comerge AG, Switzerland

Quality Manager, Medical Software -------------------------- 5/2025 - present
Project Lead & Regulatory Specialist, Medical Software --- 2021 – 4/2025
Visualization Engineer ----------------------------------- 9/2018 – 12/2020

- Project lead overseeing the development and regulatory compliance of medical software from idea to market (www.comerge.net and www.incremed.com)
- Management of a small team of software developers
- Interacting with different stakeholders including clients, investors, clinicians, consultants, a Notified Body, the FDA, and external suppliers
- Aligning software development efforts with quality and regulatory affairs:
  ◦ Requirements and usability engineering
  ◦ Documentation of software architecture and design
  ◦ Risk management and cybersecurity analysis
  ◦ Planning and execution of software verification and validation
  ◦ Updates and improvements to internal SOPs and templates
  ◦ Participating in audits by the Notified Body

Junior Software Engineer ---------------------------------- 9/2017 – 8/2018
- Development of a web-based business communication software in a cross-cultural team using agile methodologies

Hertig Visualizations, Switzerland

Scientific Visualization Specialist -------------------------------- 2016 – present
- Freelance work in scientific visualization, data visualization, infographics, and web programming (www.samhertig.com)
- Holding workshops on scientific visualization for universities
- Selected clients: ETH Zürich, EPF Lausanne, University of Basel, Stanford University, UC San Francisco, University of Lisbon

Stanford University, USA ------------------------------- *4/2015 – 12/2015*
University of California, San Francisco, USA ------------- *5/2013 – 3/2015*
Postdoctoral Researcher
- Developed software for analysis and visualization of biomedical data (www.cgl.ucsf.edu/chimera)
- Teaching assistant for object-oriented programming in Python
- Awardee of a postdoctoral fellowship by the Swiss National Science Foundation

Education

PhD in Science, ETH Zürich, Switzerland ----------------------------- *3/2012*
- Discovered a mechanism by which pathogenic bacteria can sense mechanical force using computer simulations of proteins
- Presented research at international conferences, secured grants for supercomputing resources, published research in high-impact, peer-reviewed publications, and granted one US patent

MSc in Physics, University of Bern, Switzerland --------------------- *5/2007*
- Minor subjects: mathematics and astronomy

Sam Hertig, PhD

sam.hertig@gmail.com
www.linkedin.com/in/samhertig
+41 77 466 2925

Areas of Expertise

- **Medical Devices & Regulatory:** IEC 62304, IEC 62366, ISO 14971, ISO 13485, various software-related guidance documents (EU, MDR, FDA)

- **Software:** C#, JavaScript, AngularJS, Python, Git, basics of Java and SQL

- **3D & Data Visualization:** Mixed Reality, Microsoft HoloLens 2, Unity3D, Three.js, D3.js

- **Visual Communication & Graphic Design:** Adobe Illustrator, Photoshop, basics of AfterEffects and Autodesk Maya

- **Broad Knowledge of Science:** physics, math, astronomy, biology

- **Languages:**
  ◦ English (fluent)
  ◦ German (fluent)
  ◦ French (conversational)
  ◦ Swiss-German (native)

- **Teaching & Mentoring:**
  ◦ Industry: interns, apprentices, junior software developers
  ◦ Academics : high school, undergraduate and graduate students

Scientific Publications

- Full list: www.bit.ly/2lGz5hp

Interests

- Electric Bass: www.tontopf.be
- Photography: www.bit.ly/3yys87V