

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 ♦ Demonstrating empathy and effective engagement with a wide range of audiences

Professional Experience

Comerge AG, Switzerland

Project Lead & Regulatory Specialist, Medical Software --- 2021 - present
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 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 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

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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/2IGz5hp

Interests

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