



Dr Joel F Guillod

Clinical Information System and eHealth Expert
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Languages :

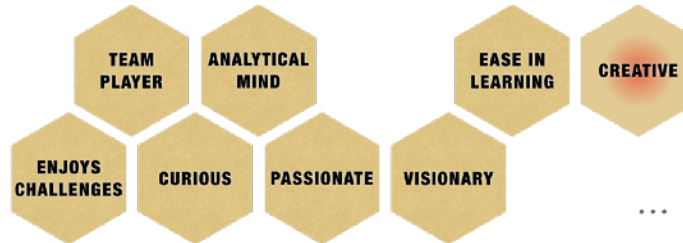
- **French** : mother language.
- **English** : fluent (CEFR "advanced to mastery" C1-C2, evaluated in 2014).
- **German** : independant vantage (B2, evaluated in 2017).

My next expected challenge :

Product Director
in an international company devoted to IoT Medical Devices

PERSONAL SKILLS

in a nutshell



PROFESSIONAL SKILLS

- ▶ **Strategy** – objectives, promotion, follow-up of projects portfolio.
- ▶ **Team Supervision (IT, medical).**
- ▶ **Users' Need and Business Processes** oriented – Ambassador for stakeholders. Steering committees and working groups animation.
- ▶ **Project Acquisition**, fundraising, budget monitoring.
- ▶ **Project and Change Management** : including awareness to « sideways project » (dealing with users' antagonism/synergy and cultural strongholds).
- ▶ **Authoring** : specifications, project documentation, scientific publications.
- ▶ **Knowledge of Medical Classifications and Technical Standards**, including CIM9/10; CISP-2; HL7; SNOMED; Tarmed and Swiss-DRG; ISO 13606; DICOM; OpenEHR, etc.
- ▶ **Ethical Standards** in biomedical research (TRREE, 2013).
- ▶ **Software Validation for medical devices.**

IT EXPERIENCE – EHEALTH

[details on next page](#)

- ▶ **Connected Medical Devices Platform (IoT) with privacy by design.**
- ▶ **eHealth Project Management** including Clinical and Hospital Information Systems (CIS, HIS) : 30+ years of experiences in project and resources management, and teams coordination.
- ▶ Strong knowledge of **Swiss Public Health System** and eHealth. **International** collaborations with other European countries and Africa.
- ▶ **Software Development** (DevOps lifecycle, full stack).
- ▶ **Sales + Deployments of Electronic Patient Record** (hospitals and offices).
- ▶ Applied R&D : **Electronic Health Record (EHR)**, **Telemedicine** (with a telecom provider), **connected medical devices (IoMD/IIoT)**, medical data exchange, skin imaging (including Swiss National Science Foundation and European Grants, in collaboration with IT Universities); cloud computing applied to clinical data.

HEALTH / CLINICAL EXPERIENCE

[details on next page](#)

- ▶ **Senior Physician** as a dermatologist.
- ▶ **Clinical Practice** in hospitals and private office.
- ▶ **Academic Teaching.**
- ▶ **Clinical Trials and Research** (University Hospitals).

PROFESSIONAL EXPERIENCE

overview

	1986 – 1992	1992 – 2005	2006 – now
Medical practice	Internal medicine (Hospital of Neuchâtel)	Dermatology (HUG Geneva, CHUV Lausanne, Medical Office in Neuchâtel)	Dermatology and SSSM <5%
R&D	Electronic Health Record and expert system for medical practice (Hospital of Neuchâtel and Institute for Mathematics and Computer Science, University of Neuchâtel)	Skin Imaging (HUG, CHUV); Swiss National Science Foundation (2x)	European Foundation Interreg IIIA; CSEM Neuchâtel; Private Companies.
IT - eHealth		Electronic Health Record (Hospitals of Neuchâtel and Private Companies)	eHealth, Health information management (Geneva State, OFS/BFS, Private Companies, ...), IoT (eliot-technology.ch)

Project and Team Management in Health IS / eHealth (since 1988)

- ▶ **Private IT Companies and State Administrations** (groupe .id, Yverdon, Switzerland; Stalice-santé SA, Besançon, France), Canton of Neuchâtel (IT Dpt), State of Geneva (IT Dpt/DGSI), Federal Office for Statistics (OFS/BFS) :
 - Project Manager for the design, development and maintenance of hospital patient records (EMR of 11 general hospitals and 2 psychiatry hospitals in Neuchâtel).
 - Projects manager for R&D and sales.
 - Methodology : HERMES (IT Steering Unit of the Swiss Confederation), SCRUM (agile method).
 - UX design (user experience / interface) and full stack Software development.
 - User training, Hotline.
 - Project teams coordination. Interaction with stakeholders : political bodies, policy makers, lawyers (**strategy**), users, developers (**development**) and production teams (**operational**).
 - Project Manager on Medical Classification and Coding for Outpatient Sector.
- ▶ **Specific Domains :**
 - Clinical Information System (CIS) and Hospital Information System (electronic patient records for hospitals and private offices, clinical and ancillary medical activity sectors, A&D, Finance): definition and implementation of strategy, analysis, design; project, change and risk management; testing and support, maintenance.
 - Knowledge Management and knowledge integration to CIS.
 - Telemedicine and patient data exchange between healthcare stakeholders (Swisscom provider and Canton of Neuchâtel).
 - Connected patient (connected medical devices) : co-founder of eliiot technology sàrl (www.eliot-technology.ch); R&D with CSEM/Neuchâtel (security and privacy).
 - Skin imaging.
 - Business Intelligence (BI).
 - Former Active Auditor in WG of the European Standardisation Centre (CEN / TC251).

Head of Research – CHUV (University Hospital of Lausanne) / EPFL (Swiss Federal Institute of Technology Lausanne) / HES (University of Applied Sciences) / Industry (1988 - 2016)

- ▶ In particular, two skin imaging projects supported by the Swiss National Science Foundation (SNF No. 32-53175.97 and 3152-061745), and one European INTERREG IIIA Fund (DECOPREME) : implementation of a collaborative system for early detection of malignant melanoma with skin imaging and WEB technologies.
- ▶ Various industrial and University projects ([see listing page 4](#)).

MD and Specialist in Dermatology – Instructor, Clinical Director and Practitioner. Hospitals of Neuchâtel, HUG (Geneva) and CHUV (Lausanne), private office (Neuchâtel) (1986 - 2010). Occupational medicine (since 2015).

- ▶ Senior Physician of the Dermatology Clinic in CHUV (1997-2010).
- ▶ Private Practice in Neuchâtel (2000-2005).
- ▶ Dermatology instructor (1997-2010).
- ▶ Medical training in Dermatology and Venereology, HUG (1992-1997).
- ▶ Occupational medicine for rescue service (SSSM), Eure / France (since 2015).

MAJOR TRAINING AND QUALIFICATIONS

- ▶ **Software Validation for Medical Devices** (IEC 62304), ARIAQ Institute (2019).
- ▶ **Public Health Diploma** (rescue service SSSM), University of Bordeaux / France (2017).
- ▶ **Master Courses in Health Information Management**. Institute of Health Policy and Management, University Erasmus, Rotterdam/The Netherlands (Course 2003-4).
- ▶ **Examiner** for federal medical examinations, appointed by the Swiss BAG, 2004.
- ▶ **Doctor in Medicine (MD)** degree at the University of Lausanne 1997. Thesis title: "Computerized Patient Record: challenges and implications of the exchange and sharing of data between partners in the health system".
- ▶ **FMH Specialist** in Dermatology and Venereology, Swiss degree in 1997.
- ▶ **Management Education**, Institute for Human Resource Development, Riex, 1993.
- ▶ **Medical Diploma**. Faculties of Medicine, Universities of Lausanne and Zurich, 1985.

ICT TOOLS AND MAIN METHODOLOGIES USED not exhaustive

Office	MS-Office, OpenOffice, iWork, Pages, Numbers, Keynote.
CMS	Plone, Joomla, Hexo, Moodle (Learning Management System).
Project Management	HERMES, SCRUM.
ERP	.id business et .id medica (www.groupeid.ch/cms/.idmedica-dossier_medical_integre), DIOHIS-MED.
Modelling	UML, OMT, Merise. Business intelligence (BI).
Software Development and WEB Technology	
Lifecycle :	DevOps, agile, design patterns.
OOPS :	Smalltalk, Java JEE, Ruby, Javascript (ES6), Actionscript3, Python.
Web :	NodeJS, PHP, HTML5 (HTML/CSS/JS), XML, Adobe Flex, jQuery, ExpressJS, Twitter Bootstrap, etc.
Web Frameworks :	Ruby on Rails, Sencha Touch/ExtJS, AngularJS, Vue.js/Quasar.
Databases :	SQL (Oracle; MySQL; Postgresql) and NoSQL (Apache CouchDB; MongoDB), WebObjects, Apache Lucene/SolR.
IDE :	Visual Studio Code, Eclipse, XCode, Borland Jbuilder, NetBeans, CodeWarrior, Revolution (runrev), RealBasic, Adobe Flex Builder.
Other programming languages :	Eiffel, Fortran, Pascal, Basic, Hypercard/Hypertalk.
Security/Privacy	OpenPGP, TLS/SSL, cryptography, firewall.
Technology watching	always learning and inquiring on technology (software, hardware, IoT).

List of scientific publications and lectures on www.imed.ch/cv/publications.pdf.

- **Co-founder and CEO in eliit technology sàrl** : connected medical devices (Home Care, Medical Office).
- **IoT Gateway** for connected Health : patients' data acquisition with connected devices (IoT) and data integration with third parties systems (cloud, EHR, etc.) (2015 - ongoing www.eliit-technology.ch).
- **Patient Data Analysis** : Data Intelligence and BI (2016).
- **Telemedicine** : full-stack development, e.g. Server and Smartphone Apps (2011-16).
- **EHR for Medical Offices** : development and marketing of HaptoMED software for private physicians : billing (1989-2003) and medical record (1990-2014).
- **Consultant for eHealth Projects** at Groupe ID Informatique & Développement Nouvelles Technologies (Yverdon, Marin et La Chaux-de-Fonds) : EHR for Home Care and Medical Offices (since 1999).
- Analysis towards a **Notifiable Infectious Diseases Information System** (State of Geneva, 2009).
- **User Needs Analysis, IS Redesign and Change Management Assessment** for the administrative and clinical applications of the Office Médico-Pédagogique (OMP) (State of Geneva, 2009).
- **Design of Education and Training Courses** in dermoscopy for the Clinic of Dermatology (CHUV, 2006-9).
- **DECOPREME System for Early Detection of Melanoma on Internet** : as Swiss Manager for a European Project, INTERREG IIIA Switzerland-France (with CHUV in Lausanne, ID Informatique & Développement Nouvelles Technologies SàRL in Yverdon, CHUB in Besançon/France, Laboratory of Informatics of the University of Franche-Comté LIFC in Besançon, Statice-santé SA in Besançon) (2006-8).
- **Open Internet Platform for Distributed Image Processing** (cloud computing). Application to dermoscopy for malignant melanoma screening (2002-4, 2013-14).
- Director for a research project on skin imaging supported by the **Swiss National Science Foundation** (FNS) n° 3152-061745. CHUV – EPFL Collaboration (2001 – 2004)
- Director for a research project on skin imaging supported by the **Swiss National Science Foundation** (FNS) n° 32-53175.97. CHUV – EPFL Collaboration (1998 – 2000).
- **Business Analyst Expert** for University of Applied Science (research or diploma works), including :
 - **Validation System for Drug Prescriptions** (ISBE/Berne, 1989).
 - «DENIPS» Project : a **Clinical Information and Communication System** (ISBE/Berne, M. J. -G. Gander, 1992).
 - **User Interface Modeling** in porting a **Medical Diagnosis Expert System** to INTERNET (ISOe/Oensingen, 1997-98).
 - **Digital Dermoscopy Analysis** (HEG/Genève, 2004).
- **Clinical Information System** (CIS, EHR) in Canton of Neuchâtel Hospitals : analysis and specifications of user's needs and business processes, design, prototyping, coordination tasks between users and IT team, tests, deployment, **Ethical Rules on Ownership and Usage of Data** (1988-2001).
- **Electronic Documents Communication between Practitioners and Hospitals** : a Project initiated by Swisscom Telecom Company on «Templates Towns for Communication» (french: «Communes Modèles pour la Communication») to build a model of (Neuchâtel, 1992).
- Auditor and Expert in WGs of the **Technical Committee on Health informatics** of the **European Centre for Normalisation** (CEN/TC 251, Bruxelles/Belgique, 1990-92).
- **Medical Diagnosis Expert System using Artificial Intelligence (AI)** : implemented in SmallTalk-80 (partnership between the Department of Medicine of Neuchâtel Hospitals and the Institute of Mathematics and Computer Science of the University of Neuchâtel, 1988-90).