



Dr Joel F Guillod

Medical Informatics & eHealth Projects Management and Consulting

Swiss citizen
DoB : August 29, 1960
Married, 2 adult children

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Languages :

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

PROFILE

- ▶ Strong skills for analysis and synthesis.
- ▶ Passionate with customer's needs.
- ▶ Always inquiring technology
- ▶ Ability to step back and to deliver innovative and ground-breaking solutions.
- ▶ Volunteer to meet the challenges, to collaborate with various stakeholders, to listen and encourage others in expressing their respective competences.
- ▶ Facing problems : fosters the search for solutions.

SPECIFIC SKILLS

- ▶ Expertise on **Health Information Systems**.
- ▶ **Strategy** : definition, promotion of projects, from idea to implementation.
- ▶ **Users' Need** and **Business Processes** : analysis and specifications. Mediation between users and IT professionals ("*healthcare professionals ambassador*"). Steering committees and working groups animation for health professionals.
- ▶ **Project Acquisition**, applications for grants (fundraising), budget monitoring.
- ▶ **Project and Change Management** : including awareness to « sideways project » (dealing with users' antagonism/synergy).
- ▶ **Authoring** : specifications, project documentation, scientific publications.
- ▶ **Supervision of Software Development Teams** (including testing, deployment, launching production).
- ▶ **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).

IT EXPERIENCES

[details on next page](#)

- ▶ **Connected Medical Devices Platform** (IoT) with **privacy by design**.
- ▶ **eHealth Project Management**, teams and resources coordination.
- ▶ **Project Management of Clinical and Hospital Information Systems** (CIS, HIS) : 25+ years of experiences in project and team management.
- ▶ Strong knowledge of Swiss **Public Health System** and eHealth.
- ▶ **Software Development** (whole cycle).
- ▶ **Deployments of Electronic Patient Record** (hospitals and private practices).
- ▶ **Applied Research** : electronic health record (EHR), telemedicine, medical data exchange, skin imaging (including Swiss National Science Foundation and European Grant, in collaboration with Universities for engineers); cloud computing applied to clinical data; connected devices (IoT).

CLINICAL EXPERIENCES

[details on next page](#)

- ▶ **Clinical Practice** in hospitals and private office as a specialist in Dermatology and Venereology, Senior Physician.
- ▶ **Academic Teaching**.
- ▶ **Clinical Trials and Research**.

PROFESSIONAL EXPERIENCE

Project Management in Health Information Systems / eHealth (since 1988)

▶ **Private Companies and State Administrations :**

- Mandates : private industry (e.g. groupe .id, Yverdon, Switzerland; Statice-santé SA, Besançon, France), Canton of Neuchâtel (IT Dpt), State of Geneva (IT Dpt/DGSI).
- Methodology : HERMES (IT Steering Unit of the Swiss Confederation), SCRUM (agile method).
- UX design (user experience / interface) and Software development.
- User training.
- Project teams coordination. Interaction with political bodies, policy makers (**strategy**), users, developers and production teams (**operational**).
- Project Manager on Medical Classification and Coding for Outpatient Sector, Federal Office for Statistics (OFS/BFS), 2017.

▶ **Special 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.
- Skin imaging.
- Business Intelligence (BI).
- Connected patient (connected devices) : Product Manager in eliiot technology sàrl (www.eliiot-technology.ch); R&D with CSEM/Neuchâtel (IoT security and privacy).

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 a project supported by the European INTERREG IIIA Fund (DECOPREME) for collaborative early detection of malignant melanoma using WEB technologies.
- ▶ Various industrial and University projects (see listing page 4).

Medical IT – Hospitals of the Canton of Neuchâtel (1988 - 2001)

- ▶ Project Manager for the design and development of hospital patient records (11 general hospitals and two psychiatric hospitals).
- ▶ Former Active Auditor in WG of the European Standardisation Centre (CEN / TC251).

Specialist in Dermatology – Instructor, Clinical Director and Practitioner. Hospitals of Neuchâtel, HUG (Geneva) and CHUV (Lausanne), private office (Neuchâtel) (1986 - 2010), including:

- ▶ Senior Physician in the Dermatology Department CHUV (2000-2010).
- ▶ Private Practice in Neuchâtel (2000-2005).
- ▶ Head of Clinic, Department of Dermatology CHUV (1997-1999).
- ▶ Dermatology instructor (1997-2010).
- ▶ Medical training in Dermatology and Venereology, HUG (1992-1997).
- ▶ Since 2015 : Service de Secours et de Soins Médicaux (SSSM), Eure / France.

IN A NUTSHELL (TABLE)

	1986 – 1992	1992 – 2005	2006 – now
Medical practice	Internal medicine (Hospital of Neuchâtel)	Dermatology (HUG Geneva, CHUV Lausanne, cabinet médical 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 - Clinical Information system		Electronic Health Record (Hospitals of Neuchâtel and Private Companies)	eHealth, Health information management (Geneva State, OFS/BFS, Private Companies, ...), IoT (eliiot-technology.ch)

TRAINING AND QUALIFICATIONS

- ▶ **Public Health Diploma**, University of Bordeaux / France (2017).
- ▶ **Master in Health Information Management**. Institute of Health Policy and Management, University Erasmus, Rotterdam/The Netherlands (Course 2003-4).
- ▶ **Examiner** for federal medical examinations, appointment by the Swiss BAG, 2004.
- ▶ **Doctor in Medicine** 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", under the direction of Prof. B. Ruedi.
- ▶ **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	
OOPS :	Smalltalk, Java JEE, Ruby, Javascript (ES6), Actionscript3. Design patterns.
Web :	PHP, HTML5 (HTML/CSS/JS), XML, Adobe Flex/Flash, jQuery, NodeJS, ExpressJS, Twitter Bootstrap, etc.
Web Frameworks :	Ruby on Rails, Sencha Touch, ExtJS, AngularJS, Vue.js, F7.
Databases :	SQL (Oracle; MySQL; Postgresql) and NoSQL (Apache CouchDB; MongoDB), WebObjects, eXist xml DB, Apache Lucene/SolR.
IDE :	Eclipse, XCode, Borland Jbuilder, NetBeans, Metrowerks CodeWarrior, Revolution (runrev), RealBasic, Adobe Flex Builder.
Other programming languages :	Eiffel, Fortran, Pascal, Basic, Hypercard/Hypertalk.
Technology watching	always learning and inquiring on technology.

REFERENCES

- **Mr Jean-Marie Leclerc**, CEO Health Dpt at Sword Group SA; former IT Dpt CEO of Neuchâtel (CEG) and IT Dpt CEO of the State of Geneva (DGSI/CTI):
+41 79 240 70 92, jean-marie.leclerc@sword-group.com.
- **Prof. Bernard Rüedi**, retired as Professor of Medicine in CHUV and Chief of the Dpt of Internal Medicine of Neuchâtel Hospitals, instigator of medical informatics in Neuchâtel (actually, 1st electronic hospital medical record deployed in Switzerland) :
+41 32 724 72 13 or +41 79 632 41 06.
- **Mr Michel Amey**, CEO, groupe ID informatique et développement (Rue Numa-Droz 109, 2301 La Chaux-de-Fonds / Avenue des Sciences 3, 1400 Yverdon-les-Bains) :
+41 32 545 02 00 (www.idinfo.ch).

List of scientific publications and lectures available on request.

- **Health Hub** (connected and mobile Health) : patients' data acquisition with connected devices (IoT) and data integration with third parties systems (cloud, EHR, etc.) (2015 - ongoing www.eliot-technology.ch).
- **Data Intelligence** : BI, patient data analysis (2016).
- **Telemedicine on Smartphones** : analysis, design and development of a system (2011-16).
- **Development and Marketing** of the software HaptoMED 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). Java programming with Oracle RDBMS (1999-2000); advice and projects monitoring (2008-2011).
- Analysis of a **Notifiable Infectious Diseases Information System** (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).
- Swiss Manager of the **European Project DECOPREME** (collaborative early detection of melanoma), INTERREG IIIA Switzerland-France (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).
- R & D on an **Open Internet Platform for Distributed Image Processing** (cloud computing). Application to dermoscopy for malignant melanoma screening (2002-4, 2013-14).
- Director of a research project on skin imaging supported by the **Swiss National Science Foundation** (FNS) n° 3152-061745. CHUV – EPFL Collaboration (2001 – 2004)
- Director of 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).
 - **EHR Analysis and Knowledge Extraction** (HEIG/Yverdon, pending).
- **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).
- Project «Templates Towns for Communication» (french: «Communes Modèles pour la Communication») of the swiss Post to build a model of **Electronic Exchange of Information between Practitioners and Hospitals** (1992).
- Auditor in WGs of the **Technical Committee on Health informatics** of the **European Centre for Normalisation** (CEN/TC 251, Bruxelles/Belgique, 1990-92).
- **R & D on a Medical Diagnosis Expert System**, implementation 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).