



## Dr med Joel F Guillod

Medical Informatics & eHealth Project Management and Consulting  
MD Specialist in Dermatology and Venereology

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

### Contact

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### Address (France)

159 ch de l'Épinette  
F - 27210 Foulbec

### Address (Switzerland)

Les Attis 10  
CH - 2318 Brot-Plamboz

### Languages :

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

## PROFILE

- ▶ Strong analytical and synthetic skills.
- ▶ Ability to step back and to deliver innovative and ground-breaking solutions.
- ▶ Volunteer to meet the challenges, fighting in team, to listen and encourage others in expressing their respective competences.
- ▶ Facing problems : fosters the search for solutions (rather than culprit).

## SPECIFIC SKILLS

- ▶ Expertise of **Health Information Systems**.
- ▶ **Strategy** : definition, defence of projects, implementation.
- ▶ **Users' Need and Business Processes** : analysis and specification. 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 Management**. Also, awareness to « sideways project » (dealing with users' antagonism/synergy), change management.
- ▶ **Authoring** : specifications, project documentation, scientific publications.
- ▶ **Supervision of Software Development Teams** (including testing, deployment, production launch).
- ▶ **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 continuous education, 2013).

## IT EXPERIENCES

[details on next page](#)

- ▶ **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 **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.

## 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; Statische-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).

### **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).
- ▶ 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.

	1986 – 1992	1992 – 2005	2006 – now
<b>Medical practice</b>	Internal medicine (Hospital of Neuchâtel)	Dermatology (HUG Geneva, CHUV Lausanne, cabinet médical Neuchâtel)	Dermatology and SSSM <5%
<b>R&amp;D</b>	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.
<b>IT (SI cliniques)</b>		Electronic Health Record (Hospitals of Neuchâtel and Private Companies)	eHealth, Health information management (Geneva State, OFS/BFS, Private Companies, ...)

## TRAINING AND QUALIFICATIONS

- ▶ **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

<b>Office</b>	MS-Office, OpenOffice, iWork, Pages, Numbers, Keynote.
<b>CMS</b>	Plone, Joomla, Hexo, Moodle (Learning Management System).
<b>Project Management</b>	HERMES, SCRUM.
<b>ERP</b>	.id business et .id medica ( <a href="http://www.groupeid.ch/cms/.idmedica-dossier_medical_integre">www.groupeid.ch/cms/.idmedica-dossier_medical_integre</a> ), DIOHIS-MED.
<b>Modelling</b>	UML, OMT, Merise. Business intelligence (BI).
<b>Software Development and WEB Technology</b>	
<b>OOPS :</b>	Smalltalk, Java JEE, Ruby, Javascript (ES6), Actionscript3. Design patterns.
<b>Web :</b>	PHP, HTML5 (HTML/CSS/JS), XML, Adobe Flex/Flash, jQuery, NodeJS, ExpressJS, Twitter Bootstrap, etc.
<b>Web Frameworks :</b>	Ruby on Rails, Sencha Touch, ExtJS, AngularJS, Vue.js, F7.
<b>Databases :</b>	SQL (Oracle; MySQL; Postgresql) and NoSQL (Apache CouchDB; MongoDB), WebObjects, eXist xml DB, Apache Lucene/SolR.
<b>IDE :</b>	Eclipse, XCode, Borland Jbuilder, NetBeans, Metrowerks CodeWarrior, Revolution (runrev), RealBasic, Adobe Flex Builder.
<b>Other programming languages :</b> Eiffel, Fortran, Pascal, Basic, Hypercard/Hypertalk.	
<b>Technology watching.</b>	

## 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 (DGS/CTI):  
079 240 70 92, [jean-marie.leclerc@sword-group.com](mailto: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, 1<sup>st</sup> electronic hospital medical record deployed in Switzerland) :  
032 724 72 13 or 079 632 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) :  
032 545 02 00 ([www.idinfo.ch](http://www.idinfo.ch)).

*List of scientific publications and lectures available on request.*

- **Health Hub** (connected and mobile Health) : patients' data acquisition with connected devices and data integration with third parties systems (cloud,EHR, etc.) (2015 - ongoing).
- **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).