

Summary

Extensive experience in healthcare standards development, software business analysis, product development and project management. Focus on healthcare information exchange, providing industry leadership in electronic prescribing and interoperability standards for all settings including long-term care

Key strengths

- Thought leader and consensus builder. Success aligning stakeholder interests, establishing action plans, negotiating agreement, overcoming obstacles, and delivering concrete results in multi-stakeholder, multi-organization initiatives
- Respected voice in health IT standards development. Current NCPDP task group leader and past Board of Trustees member. Speaks on health information exchange and long-term care IT topics to industry organizations and government audiences. Member of NCPDP, HL7 and IHE. Past speaker at IHTSDO SNOMED CT implementation showcase event
- Experience implementing e-prescribing and other healthcare standards: NCPDP, HL7, X12
- Use of project management methodologies and tools: Project Management Institute / PMP, Agile Software Development, UML, Rational Unified Process, Microsoft Project

Healthcare IT Experience

Health Information Exchange Analyst / Consultant

2009 – Present

Various clients: E-prescribing, EMR, payer / PBM, drug knowledgebase, other

Contract

Assist clients with their projects and strategy by providing health information exchange expertise, business and systems analysis, and product development guidance

Example projects

E-Prescribing Standards Expert

October 2010 –Present

National Institute of Standards and Technology (NIST)

Contract

Provide subject matter expertise, software requirements analysis and standards group facilitation to support NIST's e-prescribing testing role for the federal Meaningful Use and EHR Certification programs and development of other validation tools and documentation for e-prescribing implementers

- Principal standards analyst for federal EHR Certification (MU3) validation tooling and test case development. Create systematic validation profile for the range of SCRIPT 10.6 EDIFACT messages and build Schematron validations for all SCRIPT 10.6 XML test scenarios
- Lead joint NIST / NCPDP working group to provide guidance and review for NIST efforts
- Help NIST establish priorities and development game plan based on industry input. Enlist industry stakeholders from leading EMR, pharmacy chain, pharmacy vendor, network, government and regulatory stakeholders to provide guidance to NIST e-prescribing efforts
- Analysis to add support for Structured SIG and other optional SCRIPT composites
- Analysis to add support for additional message types and workflows, incl. Change, Refill, Medication History
- Provide guidance on e-prescribing standards: long-term care, controlled substances, other
- Assess standards interoperability in medication reconciliation (SCRIPT, C32 CCD, CCR)
- Assist in creation of Meaningful Use Stage 2 e-prescribing certification testing tools
- *Exchange standards:* NCPDP SCRIPT, HL7 Continuity of Care Document (C32 CCD), ASTM CCR

Electronic PA Analyst and Project Manager

June 2015 – Present

Prime Therapeutics

Contract

Assist with automation of benefit review processes and data management supporting electronic prior authorization (ePA)

- Provide project management and development process consulting to increase the focus and productivity of the effort
- Assess opportunities to automate steps related to the prior authorization process, including maintenance of utilization management criteria, workflow management and approval
- *Exchange standards:* NCPDP SCRIPT ePA

Information Exchange Conformance Analyst

November 2015 – Present

National Council for Prescription Drug Programs (NCPDP)

Contract

Provide standards expertise and technical assistance to NCPDP, helping assess opportunities to establish conformance testing capabilities for the range of NCPDP standards

- *Exchange standards:* NCPDP SCRIPT, NCPDP Telecom D.0

Health Information Exchange Expert

December 2014 – December 2015

Pharmaceutical Manufacturer

Contract

Research and apply exchange standards to support tracking of manufacturer and lot information throughout the medication ordering and administration process and reporting of adverse drug events to registries

- Document applicable standards for ambulatory, hospital and long-term care settings
- Identify gaps and needed enhancements to exchange standards. Assist in creation of SCRIPT standard enhancement proposals, which were ultimately approved by NCPDP
- Author implementation guidance to electronic health record and prescribing system vendors for tracking medication manufacturer and lot information during medication ordering, dispensing and administration processes
- *Exchange standards:* NCPDP SCRIPT, NCPDP Telecom D.0, HL7 v2.x, ICH E2B Individual Case Safety Report (ICSR: adverse drug event reporting)

E-Prescribing Product Expert

April 2014 – June 2015

Large healthcare data exchange network

Contract

Provide e-prescribing and prescriber-PBM information exchange expertise and product development support to a large US network organization

- Inform of industry standards and considerations for electronic prior authorization (ePA)
- Support development of pharmacy eligibility and medication history data exchange
- Provide continuity and development team support during a period of organizational change
- *Exchange standards:* NCPDP SCRIPT, X12

E-Prescribing Analyst

May 2014 – June 2015

PharMerica

Contract

Support the client's effort to enhance and expand its e-prescribing and patient census interfaces

- Author SCRIPT 10.6 implementation guide to support medication order and resident census interfaces between PharMerica and its facility EHR vendor partners
- Facilitate enhancements to the client's patient census interface through close collaboration with key facility vendor partners and internal business and technical staff
- Provide subject matter expertise related to e-prescribing standards and regulation
- *Exchange standards:* NCPDP SCRIPT, HL7

Health Information Exchange Analyst

June 2009 – June 2014

Surescripts

Contract

Provide business analysis and healthcare standards expertise to support the development and certification activities of this leading electronic prescription and clinical information exchange network

- Assist implementation of the current NCPDP electronic prior authorization standard. Provide standards and process expertise, business analysis, and stakeholder facilitation
- Lead definition of new pharmacy benefit-related messaging approach. Facilitate working sessions with PBM, EMR and Surescripts stakeholders. Define new XML schema and author implementation guide and related materials. Assist in stakeholder implementation and testing
- Provide ongoing standards expertise to support e-prescribing and clinical exchange initiatives
- Led HL7 message integration with US immunization registries. Standards strategy, negotiation with registries and providers on information requirements, detailed HL7 mapping analysis
- Developed formulary data test tooling based on the NCPDP Formulary & Benefit standard
- *Exchange standards:* NCPDP SCRIPT, ePA and Formulary & Benefit, HL7 2.3.1-2.5.1, HL7 CDA

E-Prescribing Analyst

August 2013 – January 2014

SigmaCare

Contract

Provide SCRIPT e-prescribing standards expertise to support the development of interfaces with pharmacy partners of this long-term care facility EHR vendor

- Analyze existing HL7 medication order interface and document requirements to transition to NCPDP SCRIPT 10.6 standard. Develop implementation guide content and data mappings
- Work closely with development team and pharmacy partner to provide subject matter expertise and to facilitate interface definition
- Assist with ongoing questions related to electronic prescribing standards and regulation
- *Exchange standards:* NCPDP SCRIPT, HL7

Electronic Prior Authorization Analyst

April – June 2013

Minnesota Department of Health

Contract

Provided training and advice on electronic prior authorization (ePA) approaches and details on the current NCPDP SCRIPT ePA standard. Facilitated a state and national stakeholder group to agreement on Minnesota guidance for ePA.

- Led collaborative development of a MN statute-required ePA companion guide
- Produced background and training materials to quickly bring stakeholders up to speed on ePA
- Researched ePA standards development history and current state ePA legislative activity
- Produced a twenty-page ePA backgrounder document

E-Prescribing Analyst and Technical Writer

April 2013

Leading US drug knowledgebase vendor

Contract

Restructured and enhanced guidance for use of this vendor's knowledgebase product in NCPDP SCRIPT 10.6 e-prescribing messages

- Collaborated with the vendor's staff to retain organization document formats while correcting and extending usage guidance
- Set editorial conventions for referring to components of the standard and aspects of use
- Provided subject matter expertise on current industry use of the SCRIPT 10.6 standard

Health Information Exchange Analyst / Project Manager

May 2009 – April 2011

Minnesota Health Information Exchange, LLC (MN HIE)

Contract

Provided health information exchange standards expertise and project management to this statewide health information organization (HIO)

- Requirements development, testing, implementation, and project management responsibilities
- *Exchange standards:* HL7 lab, immunization, CCD; NCPDP medication history, X12 eligibility

E-Prescribing Analyst

January 2009 – May 2009

Medco

Contract

Performed in-depth analysis of upcoming e-prescribing standards changes for this leading pharmacy benefit manager (PBM)

- Performed detailed gap analysis between implemented e-prescribing standards and upcoming SCRIPT 10.6 and X12 5010 standards, identifying required and optional changes
- Evaluated the SCRIPT v10.6 standard in relation to Medicare Part D e-prescribing standards required in PBM operations
- *Exchange standards:* NCPDP SCRIPT (e-prescribing), NCPDP Formulary & Benefit, X12 Eligibility

E-Prescribing Analyst

November 2008 – March 2010

SRS Software, Ltd.

Contract

Provide e-prescribing technical background and performed research on e-prescribing incentive programs, standards, federal and state requirements to this electronic medical record system vendor

- Supported the addition of e-prescribing functionality to an existing EMR system by providing background on industry conventions, technical standards and regulations
- Support ongoing information needs related to e-prescribing standards and environment
- *Exchange standards:* NCPDP SCRIPT (e-prescribing), NCPDP Formulary & Benefit, X12 Eligibility

Prior experience as employee

E-Prescribing Product Strategist

July 2006 – April 2009

MDI Achieve, Eden Prairie, MN

Employee

Led E-Prescribing product development and standards strategy for this long-term care software provider

- Directed incorporation of e-prescribing features into the MDI Achieve product offering
- Coordinated partner strategy for prescription process integration and standards use. Worked closely with customers and technology partners to expand the availability and use of the company's standards-based electronic prescribing solution
- Effectively advocated for long-term care IT needs in industry forums and standards initiatives
- Presented to industry and government audiences on behalf of long-term care E-Prescribing, including the American Society of Consultant Pharmacists, the Long-Term Care IT Summit, and the National Committee on Vital and Health Statistics (NCVHS)
- Defined and led development of electronic prior authorization capabilities exercised in the 2006 CMS-sponsored pilot of electronic prescribing standards
- Maintained electronic transaction interface maps using Orion Symphonia tools
- *Exchange standards:* NCPDP SCRIPT (e-prescribing), NCPDP Formulary & Benefit, X12 Eligibility, HL7 admission, discharge, transfer

Product Development Manager

November 2001 – July 2006

RxHub, LLC, St. Paul, MN (later merged with Surescripts)

Employee

Led the software product development activities of this healthcare industry information exchange and data services provider

- Managed development roadmap to meet strategic objectives and customer priorities; ensured timing goals were met and product requirements fully addressed
- Collaborated closely with development and integration teams throughout the release lifecycle: product concept, estimating / planning, software design / development / QA, and deployment
- Facilitated multi-customer and industry workgroups
- Contributed expertise to industry initiatives for the definition of data interchange standards, especially in the area of pharmacy benefits and formulary
- *Exchange standards:* NCPDP SCRIPT (e-prescribing), NCPDP Formulary & Benefit, X12 Eligibility

Industry Involvement

NCPDP (National Council for Prescription Drug Programs)

Past member of NCPDP Board of Trustees. Current chair of NIST / Meaningful Use task group (WG11), Long-term and Post-Acute Care E-Prescribing task group (WG14) and Implementation of Structured Sig task group (WG11). Contributor to Electronic Prior Authorization, Formulary and Benefits, and other task groups. Presenter in NCPDP webinars

HL7 (Health Level Seven) Member. Participant in the TermInfo working group (SNOMED CT in HL7)

IHE (Integrating the Healthcare Enterprise) Member

IHTSDO (International Health Terminology Standards Organization)

Participant in the SNOMED CT Education Special Interest Group. Presenter to 2014 SNOMED CT Implementation Showcase program

AHRQ E-Prescribing Expert Meeting (Agency for Healthcare Research and Quality)

LTC software representative providing input on further pilots for e-prescribing standards, including prior authorization, codified sig, and RxNorm (2008)

AHIMA (American Health Information Management Association)

Speaker: National LTC practice meeting (April 2010): E-Prescribing & E-MARs in LTC

NASL (National Association for the Support of Long Term Care)

Past Chair: Medication Management Workgroup

Speaker: 2012 *Introduction to NCPDP and E-Prescribing Standards* webinar and 2008 LTC HIT Summit session: *Incorporating Physician Input to Improve LTC E-Prescribing*

ASCP (American Society of Consultant Pharmacists)

Speaker (2007): *An Industry Perspective of Electronic Prescribing in Long-Term Care*

HITSP (Healthcare Information Technology Standards Panel)

Contributor (2007-2009): Medication Management standards selection: Provider Perspective technical committee and Consumer Perspective technical committee

Frank McKinney

Frank McKinney Group LLC | Minnetonka, Minnesota | fm@frankmckinney.com

NAHIT (National Alliance for Health Information Technology)

Member: Health Information Technology Terms Standardization Project (ONC, 2008)

HHS / Assistant Secretary for Planning and Evaluation Expert Panel

Participant: 2009 Expert panel refining design and content for a survey to be distributed with the National Nursing Home Survey

Minnesota eHealth Initiative

Workgroup member: Standards, Electronic Prescribing, Exchange and Meaningful Use

Education and Certifications

Bachelor of Business Administration – Finance. University of Wisconsin, Eau Claire, Eau Claire, WI
Project Management Institute (PMI) - PMP certification