

# Howard Edidin

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## Summary

Over twenty-five years of experience in delivering Enterprise Integration Solutions.

For the last 17 years, I have been specializing in Healthcare and Life Sciences.

- Over ten years of Hands-On Azure Experience
- Attended the Intelligent Cloud Architect Boot Camp (CSA)
- Cloud Solution Architect specializing with Azure iPaaS and iSaaS Integration
- Former MVP - Azure Data Platform
- Microsoft HL7 FHIR and Interoperability Virtual Team
- HL7 Org - Member
- HL7 FHIR SME to Microsoft
- BizTalk - HL7 and HIPPA SME

### Azure:

Cosmos DB, HL7 FHIR Integration, Function Apps, API Apps, App Services, Logic Apps, API Connectors, Internet of Things (IoT), API Management, Event Hubs, Notification Hubs, Azure Active Directory, Container Services, Hybrid Integration, Security, Serverless Architecture, Azure Storage, Media Services, Power Bi, Bots, Modern Applications with Service Fabric

### Office365:

Sharepoint, Team, Forms, Flow

### Data:

Big Data, Data Lake, SQL Server, MySql, Postgres

### Publications

#### HL7 For BizTalk

#### Microsoft BizTalk ESB Toolkit 2.1

HL7 FHIR on Azure - authored for Microsoft

#### BizTalk 2010 Administration Essentials

Numerous white papers

## Experience



### Consultant

Dec 2019 - Feb 2020

Trexin Consulting - Client: HCSC (BCBS of Illinois)

3 months

Designed and developed PoC to show how to receive HIPPA 270 Eligibility Requests, transform them to HL7 FHIR Coverage Eligibility Request Resources and post them to FHIR Server (Smile CDR). Designed client app to generate the FHIR Coverage Eligibility Response and post it to the FHIR Server. Used Azure Integatopn Account with Logic Apps.



### Microsoft HL7 FHIR and Interoperability Virtual Team - External Member

Dec 2016 - Dec 2019

Microsoft

3 years 1 month

- HL7 FHIR SME for the Microsoft HL7 FHIR Virtual Team.
- Development of a Framework for Integrating HL7 FHIR on Azure.
- Creating tutorials, based on real-life use cases, to show how easy it is to solve problems using Azure.

- Providing guidance to Healthcare Payers on implementing HL7 FHIR at HL7 Connectathons.
- Doing training webinars on implementing HL7 FHIR.
- Representing Microsoft at HL7 Working Group Meetings.

#### Authored HL7 FHIR on Azure ebook



### P-TSP (BizTalk, Azure) for Healthcare and Life Sciences worldwide

Apr 2015 - Dec 2019

Microsoft

4 years 9 months

As a P-TSP (formerly known as Virtual TSP or V-TSP), I have become an extension of the Microsoft internal teams who own various accounts in Healthcare and Life Sciences Integration. I'm often brought in to supplement the internal TSP team to conduct educational sessions, demos or envisioning sessions for clients.

**I specifically support Microsoft as an SME for the implementation of HL7 FHIR on Azure for Healthcare and Life Sciences worldwide.**



### Principal Architect Azure IoT

Sep 2017 - Oct 2019

Cognizant

2 years 2 months

- Azure Architect for an international Safety Devices manufacture.
- Designed a Global IoT Microservice solution to support multi-tenants
- Provided guidance to the development team on implementing Cosmos DB, along with Function and Logic Apps.
- Provided HL7 FHIR implementation guidance for Robotic Surgery to a Medical Device Manufacturer

**Principal IoT Architect** for a Smart Building project. Was on the core team that presented the solution to the client. Updating apartment buildings built prior to WWII that houses over 44,000 residents



### Cloud Healthcare Architect

May 2017 - Sep 2017

Phidix

5 months

Evangelist for HL7 FHIR integration on Azure



### Senior Azure Solution Architect

Dec 2015 - May 2017

VNB Consulting Services

1 year 6 months

Migrating healthcare companies from BizTalk to Azure Logic Apps



### BizTalk \ Azure Architect

Sep 2011 - May 2017

Edidin Group, Inc

5 years 9 months

#### Microsoft Integration Partner

- BizTalk
- Azure

#### BizTalk

- Providing both on-site and off-site BizTalk troubleshooting.
- Providing off-site mentoring of BizTalk Administration.
- Providing hands-on guidance and training for BizTalk, WCF, SSIS, and Azure.
- Providing hands-on BizTalk Development
- Providing BizTalk HIPAA X12 Training and Development.
- Providing BizTalk HL7 Training and Development

#### Azure

- Providing API and Logic App design and Development
- Providing Hybrid Integration design and development

Clients include:

- ADP Dealer Services
- WellMed Medical Management
- Allegheny Technologies Incorporated
- BenefitMall
- Sogeti (Career Education Corporation, National Merit Scholarship Corporation)
- Practice Velocity



## **Senior Manager - Enterprise Architect**

Nov 2014 - Sep 2015

Canter Integration, LLC.

11 months

Chief Architect providing Healthcare Integration Design, Guidance, Implementation, and Training using Microsoft BizTalk Server, Host Integration Server, and Azure BizTalk Services.

- Gold member - HL7 Organization
- HL7 - SME

I am also one of several P-TSP. I specialize in BizTalk and Azure for Microsoft Healthcare and Life Sciences Integration worldwide.

### **Projects:**

#### **State of Colorado Dept of Health and Environment (CDPHE)**

- Upgrade from BizTalk 2010 to BizTalk 2013 R2
- HL7 (ORU-R01) Unsolicited Transmission of an observation message. Lab results for new born screening.

#### **Vikaara Group**

- Project co-coordinator and SME. TFS Administration

#### **Client Health Network of CT**

- BizTalk 2013 R2 Development Training course

#### **MACLEAN-FOGG Component Solutions**

- - BizTalk 2013 R2, provided guidance, and training for using the JDE EnterpriseOne Adapters
- - Provided guidance on BizTalk development and administration

#### **National Merit Scholarship Corporation**

- - BizTalk 2013 R2 Administration Training course



## **Biztalk Consultant**

Oct 2013 - Aug 2014

Practice Velocity

11 months

Practice Velocity is a direct client of the Edidin Group, Inc.

- Provided guidance for installing and configuring BizTalk 2010 for HIPAA and HL7 transactions.
- Provided guidance and training for the clients BizTalk Developers on several HL7 projects. One of these projects was for Meaningful Use certification with the CDC for both Immunizations and Syndromic Surveillance.
- Worked with the client's IT department to set up and configure all BizTalk Environments.
- Provided guidance on the use of BizTalk 360.
- Guided the client on upgrading from BizTalk 2010 to BizTalk 2013.
- Provided guidance for a BizTalk application that validated the HIPAA X12\_5010 999 for errors and published the 837 P message along with the error information to the ESB Exception Management service.

- Proving guidance for the migration of existing .NET applications used for HIPAA X12\_5010 transactions to BizTalk 2013.



### **BizTalk Architect Consultant (SME) for Sogeti**

Aug 2013 - Mar 2014

National Merit Scholarship Corporation

8 months

My role was SME (BizTalk) for Sogeti for the client.

- - Took an active role in estimating the RFP for Sogeti
- - Took an active role in presenting the proposed solution to the client.
- - Provided client guidance on setting up and configuring BizTalk development (VM) environments.
- - Provided client's assigned BizTalk IT support personnel basic training and guidance on BizTalk Administration.
- - Provided guidance to Sogeti's BizTalk Architect on requirements and configuration for the project.



### **BizTalk Architect (Consultant)**

Jul 2013 - Oct 2013

Sogeti

4 months

Client: Career Education Corporation in Schaumburg, IL

I had two roles, one is BizTalk Architect and the other is leading the offshore support team to provide support for all BizTalk and WCF Applications deployed in Production,

I implemented BizTalk360 and SCOM 2010 SP1, along with AVIcode for monitoring the entire Services Production Environment. We are planning on implementing custom monitors that will integrate with PowerShell to automate the resolution of incidents.

Providing guidance for upgrading BizTalk 2009 to BizTalk 2010.

- - Guidance for the BizTalk Administrators and DBA's in the configuration for an Active/ Active SQL 2012 R2 Cluster to support over 100 BizTalk Applications and WCF Services on six BizTalk Servers.
- - Configuration of three MessageBoxes on one active SQL node.
- - Provided scripts to generate the proper LUN and File Groups on the BizTalk SAN
- - Provided recommendations and a POC for refactoring BizTalk Orchestrations to include proper Exception Handling utilizing the ESB Toolkit 2.1.

#### **Was BizTalk 2013 SME for three RFP's.**

- - Provided estimates and resource requirements.
- - Helped to create PowerPoint Presentation
- - I took part in a presentation to the client.
- - Provided guidance to BizTalk Developer to create POC
- - Setup and Configured BizTalk 2013 POC environment on Hyper-V

#### **Client: National Merit Scholarship Corporation in Evanston, IL**

I was the BizTalk Architect and SME for their modernization project.

- - Providing guidance and training



### **BizTalk Architect (Consultant)**

May 2013 - Jun 2013

BenefitMall

2 months

Providing Architectural guidance for a new implementation of BizTalk 2013.



### **BizTalk Architect Consultant**

Feb 2013 - May 2013

ATI Flat Rolled Products

4 months

- Providing Architectural guidance for BizTalk 2010 to support manufacturing processes.
- Providing training for BizTalk development, administration, and operations.
- Designing end to end real-time tracking of events utilizing BAM.

- Developed custom pipeline component for the ESB to debatch positional flat files and assign namespaces.



## **BizTalk Architect Consultant**

Nov 2012 - Feb 2013

WellMed Medical Management

4 months

- Provided architectural guidance and hands-on development for X12 278 Authorizations Integration BizTalk Application.
- Provided guidance and training for Administering BizTalk 2010.
- Provide guidance for implementing BizTalk 360, Managed off-shore HL7 Development Team

radian

## **BizTalk Consultant**

Sep 2012 - Nov 2012

Radian

3 months

- - Providing guidance for Administration and Operations for BizTalk 2010.
- - Design of BizTalk 2010 Applications.
- - Refactoring of existing BizTalk Applications.
- - Implementing the use of BPMN for designing and documenting BizTalk Applications.
- - Providing guidance for off-shore BizTalk Developers
- - Providing guidance for implementing BizTalk 360



## **BizTalk Architect (Consultant)**

May 2012 - Jun 2012

Accenture

2 months

Provided guidance for migration of BizTalk 2006 R2 to BizTalk 2010.

- - Included migrating from the ESB Toolkit 1.0 to ESB 2.1.
- - I was the Architect for their original BizTalk 2006 R2 implementation



## **BizTalk Architect / Administrator (Consultant)**

Jan 2012 - Mar 2012

Marshfield Clinic Health System

3 months

- - Providing Guidance for Architecting a Highly Available BizTalk 2010 Environment.
- - Providing Guidance and Training for BizTalk 2010. Development, Operations, and Administration..
- - Implementing HL7, EDI, EAI, and ESB solutions.
- - Introduced the use of BPMN for designing and documenting BizTalk Solutions.
- - Created PowerPoint training sessions for their BizTalk Architect on Best Practices for BizTalk Development.
- - Redesigned their SQL Server 2008 R2 implementation to separate BizTalk and SharePoint instances.
- - Provided direct guidance to their BizTalk Administrators on Monitoring and Problem-solving.
- - Created an installation guide for installing and configuring BizTalk development VM's.
- - Provided training for the proper use of the ESB Exception Framework in Orchestrations.



## **BizTalk Architect (Consultant)**

Jul 2011 - Dec 2011

VW Credit, Inc.

6 months

Providing guidance and training for implementing BizTalk 2010 for the enterprise. This was their first BizTalk implementation.

- **Trained Enterprise Architects on BizTalk design and development.**
- **Designed and developed Integration POC to replace existing Dealer Management data feeds.**
- **Provided guidance and training on the use of BPMN for designing and documenting BizTalk applications.**
- **Created documentation for the Administration and Operations of the BizTalk Server 2010.**



## **BizTalk Architect (Consultant) Footlocker.com**

Mar 2011 - Jul 2011

TEKsystems

5 months

Providing guidance and training for a new BizTalk 2010 SOA Implementation.

- - Architected their BizTalk Infrastructure
- - Provided training classes for BizTalk development
- - Provided training on the use of BPMN to design Business and Messaging Processes.

- - Provided guidance for installation and configuration of BizTalk Infrastructure.



## Senior BizTalk Architect

Apr 2010 - Nov 2010

Kelly Services

8 months

Working with Ceridian Benefit Services in St. Petersburg, FL



## Senior BizTalk Architect - Consultant

Apr 2010 - Nov 2010

Ceridian

8 months

- Provided guidance and training for a new implementation of BizTalk 2009.
- Upgraded BizTalk 2009 to BizTalk 2010.
- -Developed a WCF LOB Adapter for Sybase Advantage Database.



## BizTalk Consultant

Dec 2009 - Apr 2010

RBA, Inc.

5 months

Worked on a major BizTalk project for Blue Cross Blue Shield of Louisiana.



## SOA Architect

Mar 2009 - Oct 2009

CDK Global

8 months

Chief Architect for the ADP LeadIntelligence product

Designed and developed BizTalk Solution to provide Sales Lead Scoring for auto dealers



## Senior Business Solution Architect

Feb 2009 - Mar 2009

Architecting Business Associates

2 months

Provided BizTalk Business Processing Design and Development Services



## Senior Solution Architect

Jan 2008 - Mar 2009

Catalyst Software Solutions

1 year 3 months

- Architected and developed BizTalk 2006R2 for US Resources (Client)

- Architected and developed BizTalk 2009 (TAP Program) solution for the Museum of Science and Industry of Chicago



## Senior ESB BizTalk Architect

Dec 2007 - Jan 2008

Accenture

2 months

Implementation of Microsoft Enterprise Service Bus for Accenture CIO.



## BizTalk EDI Architect

Apr 2007 - Dec 2007

Briggs & Stratton

9 months

- • Architected, designed and implemented BizTalk 2006 R2 EDI 850, 810, 856 Applications in less than two months.
- • EDI Migration from Catalyst to BizTalk 2006.
- • Architected, designed and configured Custom Enterprise BizTalk 2006 Infrastructure for EDI.
- • Architected and designed custom BizTalk 2006 R2 EDI Application for all inbound X12 and EDIFACT documents.
- • Architected and designed custom C# .Net EDI Parser to handle pre-sorting of trading partners.
- • Utilized Business Rules Framework to merge multiple maps (Transformations) into one map.
- • Designed Orchestrations to handle multiple trading partners.
- • Designed custom functoids in C# to handle multiple looping segments.
- • Trained client's staff on BizTalk 2006 configuration and administration.
- • Installed and configured Covast 2006.
- • Utilized Business Rules Framework to handle SAP business requirements.



## Enterprise Integration Consultant

Jan 2007 - Apr 2007

Takeda

4 months

- Analyzed Clinical Trials Business Process to identify Key Performance Indicators.
- Created "Business Process Metrics and Reporting Functional Requirements" RFP documents.
- Performed Technical Architecture analysis of Metrics collection and reporting systems.
- Created technical comparison matrix of products currently being used and being considered by client.
- Created specifications for evaluation of BizTalk 2006 for EDI and Secured Data File Transfer for Clinical Trial data.
- Designed and developed Proof of Concept (POC) scenarios for evaluation.
- Designed End to End Workflow for MOSS 2007 (SharePoint Services 3.0) and BizTalk 2006 for secure data exchange with vendors.
- Developed "Scorecard" for client evaluation.



## BizTalk 2006 Architect/ Consultant

Apr 2006 - Dec 2006

CDK Global

9 months

- Designed and implemented new BizTalk 2006 Enterprise High Availability Infrastructure
- Designed and developed BizTalk 2006 applications for synchronization of customer data between Oracle 10g and SalesLogix applications. Designed and developed interfaces for Oracle (PL/SQL Packages) and SalesLogix (Stored Procedures).
- Provided administration of all BizTalk 2006 services and applications.
- Educated Business Analysts and Database Administrators on the administration of BizTalk 2006 services and applications.
- Designed and developed Net 2.0 Web Service to provide Active Directory services for all Client Applications.
- Mentored developers on the use of Visual Studio 2005 Team Edition.
- Integrated MOM for monitoring BizTalk QA and Production Servers.
- Designed and implemented MOM for monitoring SQL and ASP.Net services.
- Mentored developers on migrating projects from Net 1.1 to Net 2.0.
- Designed and Implemented BAM for business processes



## Senior Consultant

Aug 2005 - Apr 2006

Whittman-Hart

9 months

- Developed BizTalk 2004 Solution for the migration from PeopleSoft to SAP for Siemens



## Senior Net Architect

Apr 2005 - Aug 2005

AIM Specialty Health

5 months

- Architected the conversion of existing applications from VB.Net to C#.
- Architected merging of existing asp 3.0 and asp.net application under Enterprise Framework utilizing Test-Driven Development, Design Patterns, and Software Factories



## Senior Systems Developer

Feb 2004 - Apr 2005

Abanco International

1 year 3 months

- Lead Developer for Health Care Solutions. Architected and developed Service-Oriented Architecture Enterprise Framework to provide HIPAA x12, HL7, and payment processing services for Healthcare Facilities utilizing XML web services hosted on Windows 2003 servers.
- A Client Application was developed in VB.Net and C#.Net for deployment on a Windows XP-Embedded thin-client.
- A second Client Application was developed as an ASP.Net application.



## Senior Web Developer




Jul 1999 - Sep 2002

Wonderlic


3 years 3 months

Ported Desktop Human Resource Test to Web Applications.

## Education

	<b>University of Southampton</b> Master of Computer Applications - MCA, Computer Science, B+	2013 - 2015
	<b>University of Southampton</b> Bachelor's degree, Information Technology	1995 - 1997
	<b>Harrington College of Design</b> Design	1970 - 1973

## Skills

 Integration • Windows Azure • BizTalk • HL7 • Enterprise Architecture • HL7 FHIR • Cloud Applications • IOT • Project Management • Training

## Certifications

### **Microsoft Certified Technology Specialist (MCTS) - Developing Business Processes and Integration Solutions using Microsoft BizTalk 2010 • Microsoft**

D369-8904 • Jul 2010 - Present

### **Microsoft Certified Professional - MCP 2.0 -- Certified Professional • Microsoft**

A035-8601 • Jun 1999 - Present

### **Microsoft Certified: Azure Developer Associate • Microsoft**

Sep 2019 - Sep 2021

## Honors & Awards

### **DocumentDB Wizard • Microsoft • Dec 2015**

Created open source DocumentDB REST API

Created tutorial on the use of DocumentDB with Logic Apps

### **Microsoft MVP • Microsoft • Apr 2016**

MVP for the Data Platform

Primarily DocumentDB