

## EMPLOYMENT EXPERIENCE

### **4/09 – Present** IT, Geisinger Health Systems – Danville, Pa.

Positions held: Technical Analyst Lead – EI&CM (6/11 - present)

Senior Technical Analyst – EI&CM (4/09 - 6/11)

Duties include:

- PLA in charge of OpenText products which include Collab, Portal, Builder, Dialog, Social Media
- Maintained Tomcat and Apache services used by OpenText products
- Administer 13 Linux and 14 Windows servers:
- Assist with Development team using C#, HTML, Javascript, PHP
- Worked with Oracle, MySQL, MongoDB and Postgresql databases
- Integrated corporate LDAP system into custom applications and OpenText products
- Installed and administer OpenNMS app to monitor department. servers and services
- Design and develop custom administration tool used with OnTime system.
- Install and administer department Subversion services and Git services
- Designed and developed RESTful servers using a combination of PHP and Tomcat to work in junction with business work flows processed in Pentaho Kettle for doing custom notifications via SMS transmissions using the Twilio API.
- Help with sever configuration and installation of Tibco environment. Setup Tibco development environment for use by EI&CM developers.
- Designed SMS production system to use Tibco EMS for all messaging between system modules. Integrated a PHP extension to work with the Tibco EMS as well as helped with Java plugin for Kettle and oversaw the design and creation of a Courier application to funnel messages from the EMS to various RESTful servers and other potential applications. Overall design is a custom SOA solution.
- Designed Campaign Manager to process and handle all outreach communications via various mediums: SMS, Email, Fax, IVR, and Pagers. Written completely in Laravel.
- Integrate Mailgun and OnSignal services into the Campaign Manager for email and web push notifications.
- Installed and administer departments Portus for Docker repos and Portainer for Docker admin.
- Migrated various systems to contained applications.

□ On Sept. 20<sup>th</sup>, 2012 I was a featured presenter on a webinar sponsored by Twilio and Forrester Research focusing on customer relations and notifications to back the book, “Outside In – The Power of Putting Customers at the Center of Your Business”.

### **4/07 – 1/09** Software Developer, NYCVP – Kingston, PA.

Positions held: Senior Software Applications Developer

Duties include:

- Development of high traffic eCommerce web portal
- .Net Development of vacation reservation system.
- ASP.Net development of web site.
- Company .Net Framework for all developers.
- MS-SQL and MySQL Databases
- Integration of Jasper BI Suite (Java).
- All graphics and video production
- ETL design and development for company data warehouse
- Jasper Reports and OLAP reports
- Administer Linux based CUPS server

Administered the Linux based servers which hosts CUPS server as well as those used for Video production conversions.

Designed company framework which consisted of a 3-tiered object oriented environment developed with a combination of VB.Net and C#. Framework was designed to be used by Web Portals developed with ASP.Net and standalone Windows applications written in VB.Net.

# Michael A. Hess

110 Hex Street • Harding, PA 18643-7155 • (570) 388-2554

Design of eCommerce system required team meetings with users along with detailed prototypes and UML documents.

## 9/04 – 3/07 Software Developer, TMG Healthcare, Inc. – Scranton, PA.

Positions held: Senior Software Applications Developer  
Department Lead Software Applications Development  
Project Manager/Designer Special R&D Projects

Duties include:

- Administered all Linux servers that ran JBoss and Tomcat Web Apps. Also the servers that ran PostgreSQL used for Data Warehouse and ETL services which were used by Linux servers running the Joomla Portals.
- Control all aspects of images at TMG. This involves writing software to handle: Receipt, Storage, Manipulation, Conversion, and Presentation.
- Acted as liaison between customers IT departments and TMG development teams.
- Stand alone applications written for Windows and Linux in: VB6, VFP, C#, XML, OO Pascal, Java.
- Design of Web Portals for use by Medicare Insurance Providers, their customers and physicians.
- Web Portals and Applications written in: PHP, C#, ASP.Net, VB6, Java, XML for IIS, Apache, Tomcat, and JBoss
- Develop BI interface for company for OLAP and static reports using Mondrian and Pentaho embedded in a customized COTS CMS Portal.
- Designed and developed custom Portal modules.
- Design and develop various database structures, tables, stored procedures for MSSQL, MySQL, PostgreSQL.
- Creation of UML documents during early project design stages.
- User documentation and assist in training sessions.
- Helped with Proclaim which is a insurance adjudication tool which is written in Java. Designed frontend tool for running it in JBoss and worked on the transfer from Linux to Windows platform.
- Maintained operation of JBoss server and the Web Apps and portals running in that environment.

Setup and application integration of development tools:

- Subversion for version control
- MoreGroupWare for project management and todo lists.
- Mantis for bug tracking
- KnowledgeTree document management system

All of the above tasks require a knowledge of various Medicare claims and claim processing from plan enrollment to claim adjudication.

## 3/89 – Present Software Engineer, Miracle Concepts, Inc.

Duties include:

- Development of Mobile applications and Mobile Web Sites.
- Run and maintain a Cloud SaaS and SaaS for use by clients and for internal needs.
- Have used Jira and UberSVN for development governance which incorporates ZenDesk for help desk integration.
- Use Gitlab for source code repository
- Design and development of software for the Windows, Apple Macintosh, Linux, and UNIX machines.
- MultiMedia development: CD-ROM, CBT, WBT, IVD, etc.
- Design and validate Section 508 compliance for all government content projects.
- Analyze existing sites to determine and report on Section 508 compliance
- Develop SCORM and IMS compliant courseware
- Create Design Documents, Schedules, Timelines, Prototypes, Testing Plans, Formative Evaluation
- Front end Analysis to determine customer requirements and goals
- Manage User Pilot Testing and Regression Tests.
- Setup and support of Linux systems
- Administer all Linux and BSD servers:
  - 9 Rackmount Linux servers
  - 2 Xen servers running a total of 6 Guest Linux servers

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- Multiple Raspberry Pi's running business services: PBX, DNS, HTTP, Docker environment
- 2 BSD server managing all router and firewall services.
- Asterisk VOIP system
- Services being provided include:
  - DNS
  - Web Servers – Apache, Tomcat, JBoss
  - FTP Servers
  - Rsync Backup Services
  - Mailman Mailing Lists
  - SMTP Servers
  - Jabber Server
  - SSH
  - LCMS - ATutor

At one point hosted the following high volume, high traffic web applications and eCommerce portals:

- [www.bachmanntrains.com](http://www.bachmanntrains.com)
- [www.lacperdu.com](http://www.lacperdu.com)
- [www.sunnybank-nc.com](http://www.sunnybank-nc.com)
- [www.lowwpane.org](http://www.lowwpane.org)
- [www.lazarus.freepascal.org](http://www.lazarus.freepascal.org)
- [www.miraclec.com](http://www.miraclec.com)
- [www.carsareuspa.com](http://www.carsareuspa.com)
- [www.toyterminal.com](http://www.toyterminal.com)
- [www.peterbororr.com](http://www.peterbororr.com)

□ Founding member of the large OSS development effort “**The Lazarus Project**”

This is an effort to create a Delphi like environment running under Linux using Free Pascal. This requires detailed knowledge of the Linux development environment using Make and other Gnu tools for building applications and creating RPM, Deb releases for installation.

Was an early contributing developer on the “**PasDoc**” project which is a source code documentation tool.

Designed custom Linux based Web Portal for Bachmann Trains which included complex Application Integration of Forums, Image Gallery, eCommerce, Product Catalog, Event Calendar, etc.

Designed and developed projects for the following clients using the languages or combination of languages listed. Details and examples of these various projects are available upon request.

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|--|---|---|
| <ul style="list-style-type: none"><li>• McGraw-Hill</li><li>• US. Navy</li><li>• Xerox</li><li>• Benco Dental</li><li>• Den-tal-ez</li><li>• Karibe</li><li>• TMG Health</li><li>• Chapman &amp; Hall</li><li>• Pro Golf</li></ul> | <ul style="list-style-type: none"><li>• SouthWestern Book Publishers</li><li>• Hughs Associates (for the US Navy)</li><li>• Glencoe Division of Macmillan/McGraw-Hill</li><li>• Department of Energy</li><li>• Department of Defense – (US Navy)</li><li>• Distribution Unlimited</li><li>• EASE Diagnostics</li><li>• World Energy Council</li><li>• Lancaster Infectious Diseases</li><li>• National Fire Academy</li></ul> | <ul style="list-style-type: none"><li>• C++ / C</li><li>• Delphi</li><li>• Visual Basic</li><li>• Visual FoxPro</li><li>• JavaScript</li><li>• DHTML</li><li>• Java</li><li>• VB.Net</li><li>• C#</li><li>• XML</li><li>• Various Authoring Languages</li></ul> |
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All projects created for US Navy and National Fire Academy required adherence to Section 508 compliance.

□ The American Publishers Association awarded the *'Timer Saver Standards for Landscape Architects'* product the 1998 Electronic product of the year. This was developed for McGraw-Hill.

Designed and created a full text search engine for use with web sites stored on CD-ROM or run within an intranet without the use of a web server. Written as a Java Applet it searches pre-compiled data dictionaries and indexes to provide detailed hit lists from the site.

**7/86 – 3/90** Advanced System Engineer, Ferranti Educational Systems, Inc - Lancaster

Duties include:

- Design of software tools and black box programs to be implemented into larger projects.
- Management of a MicroVAX II system.
- Provide all programming tools and utilities to Software Design department.
- Helped in the installation and initial work with the company's video graphics and animation department.
- Installation and management of a TOPS network between Apple Macs and IBM PCs.
- Work with the other various disciplines in the company to develop new features for the languages as well as other software utilities when needed.
- Projects:
- The development of an Authoring Language for use in the creation of IVD programs.
  - The language consists of a P-Code compiler, a debugger, and a Hypercard-like run-time Executor. The language was developed for MS-DOS and then ported to the Apple IIGS ProDos environment. The same source and P-Code works in either environment. A graphics utility used to edit graphics screen, placing graphics made in a paint package at selected places on the screen and combining this with text and other computer controlled graphic shapes and figures. I designed a graphics librarian to hold these graphics for the authoring language to use.
- The development of a more efficient compression algorithm, that saved approximately 50% of the files normal space, to conserve disk space.
- The development of a graphics converter to convert and port Apple IIGS graphics to an IBM graphic format.
- The initial design requirements and orchestration of the development of an Apple IIGS-compatible video/graphics overlay board. This board allows the incorporation of NTSC video signal with analog RGB graphics to a single analog RGB monitor.
- A graphics conversion package to convert True Color Paint high-resolution graphics to formats usable on IBM EGA/VGA and Apple IIGS systems. Any TCP image can be used, including those genlocked from a camera, tape (any NTSC or RGB signal) or 3-dimensional animation screens.

*(Information on previous employment available upon request)*

## **EDUCATION**

1977-1981 Penn State University

Studied Data Communications, Computer Science, Digital Electronics, and Microprocessors towards a B.S.E.E.

## **COMPUTER KNOWLEDGE**

Languages: GCC, Java, C#, VB.Net, ASP.Net, VB6, Metrowerks C++, Symantic C++, Think C, Borland C++, Watcom C, Pascal, Borland Delphi, Free Pascal, Visual FoxPro, EcmaScript, JavaScript, PHP, HTML, DHTML, Perl, Python, Basic, QuickBasic, VAX Basic, Basic-Plus-2, Pilot, HyperTalk, Linkway, Tutor Tech, mTropolis, Authorware, TenCore, XBase, Assembler and machine code.

Frameworks: JQuery, Jquery Mobile, MooTools, CodeIgniter, Laravel 4.x through 7.x, Vue.js

Docker: Build and deployment of containers

CMS Portals: Drupal, Joomla, Mambo, PostNuke, ezPublish, JBoss Portal, DotNetNuke, OpenText Portal (Vignette)

eCommerce Portals: CubeCart, ZenCart, osCommerce, wooCommerce

Database Environments: MS-SQL, Postgresql, MySQL, MS-Access, Oracle

Operating Systems: Linux, Unix, various BSD, Windows (all versions Desktop and Servers), Macintosh System

**REFERENCES** Available on request.