

仁人卷

Juan Daugherty , juan@acm.org
Senior Software Engineer.

IT evergreen worker since 1974. Mostly worked remote since late 90s.

Current to mid teens, below organized chronologically *within* W2/4 and 1099 (p. 3) , sections and a final section (p. 8) for my self efforts. Don't intend to update this doc further this decade.

Out of band case

W2/4

Global MRV

Biz Case #62

2014Q3 - 2015Q2

Create an enterprise SaaS/PaaS base for a vendor of PEMS (Portable Emissions Measurement System) telematics (until my work a pure LabView shop) . In addition to the drupal fronted enterprise base app, there are mobile apps on both Play and App Store, a django based API and event server, BIRT report server.

Boston University 2008

Hourly work here, mainly adaptation of a test taking package for use by the institutions school of medicine for online CME test taking and certification. Secondary job was work on a facilities scheduling system which was first use of Drupal. This was PHP and perl/cgi on linux.

Telperion, Buffalo

June 2005 - October 2006

**Telperion is a services firm in Rochester that had contracts with a number of special education institutions in the Buffalo Area to provide IT functions. At one of these they had a contractual obligation to create an enterprise system. This was substantially accomplished by a contractor from Toronto who then tried to deal direct with the institution which was an order of Catholic nuns called Cantalicians, the facility being the Cantalician Center. The contractor didn't turn over the sources so I had to reverse engineer them from the .net assemblies to restore a source code state. Having done so rearchitected the system overall and an XML/XSL module from it is in the resume portal. c#, SQL Server stored procedures, dot net.

W. H. Sadlier, Manhattan

August 2001 - February 2002

*Manger of IT for this the primary publisher of K-12 texts fro parochial schools in the US. Kept operations going during 9/11 disruptions as company site is across from the stock exchange. This was August 2001 thru January 2002. Joe Shen was the CTO and my boss, pretty sure he's still there. The work was with the Lawson ERP package, some salvage operations with the firms legacy CICS system, and a shipping interface with Lawson which was in VB. Responsibilities spanned all IT functions though including stuff like programming the phone system.

Netcast, Manhattan

Spring to Fall of 96

Netcast was to be the big thing in internet radio. Nothing ever actually quite filled the niche it

intended to as iTunes and the like aren't quite the same. Was a failure because of a usual host of reasons that startups are. This was sometime in '96. Used C with DB/2 iirc.

Givaudan Roure, Clifton NJ

October 92 - 94

**Programmer Analyst in a two person department that did all the client sever/non-mainframe development on OS/2 clients. A workflow system the other person had originally developed was the sole application and it was used to control the flow of a samples to customers in the Flavors division. A main problem was getting access to the main store of enterprise data which was an AS/400. The original OS/2 DB/2 interface was extremely intensive in its use of mainframe resources on an already overloaded AS/400. Main accomplishment here was to create a client server engine that replaced a commercial SQL CLI of about 20 calls (QELIB) with a cursor caching replacement. This work which was done when my overbearing colleague was on vacation drastically reduced the drain on the OS/400 system and allowed the client server system to freely access the ERP system which was BPCS. C was the programming language.

Cybernetics Systems, Coral Gables

October 87 - Q4 88

They made an hourly labor scheduling product called EMPS and the algorithm was essentially a generalized least square error fit. The work here was on the central scheduling algorithm of the companies main product. Fortran 77 was used on PC. The company founders were present and developed the original code on teletypes while working for Eastern Airlines.

*Engineering and Economics Research, Orlando

Spring 85 - February 87

Also very influential as this was where I first used Smalltalk. Actually at first the PC version was called Methods and was not fully graphical although it did have the now famous MVC GUI and of course the original OOP. This was spring/summer '85 to February '87. Used a very little C IIRC. The main DBMS used was Focus. EER was/is a beltway contractor and the work was an agency commissioned by Caspar Weinberger to study training programs across all services, the Training Data Analysis Center (TDAC) in an industrial park next to the University of Central Florida.

Daytona Beach Community College

October 83 - Spring 85

*Systems Programmer. This was very formative work for me because it was a Burroughs shop. The state of Florida had an excess B6700 so I had the SPO for this in my office and shared it with the other programmers. Maintained several MCSes and handled all the systems software. There were about 15 full time people in the dept, a chairman or whatever, the guy who ran the database and effectively the department, an operations supervisor and operators and about 5 or 6 other programmers. Production was on a B6800 which handled about 500 transaction types and all of the work of the institution which is now called Daytona State College. Used Algol, WFL,NDL.

Florida Natural Gas , Orlando

Fall / Winter 81 - 82

Was hired here to work with another guy as the OR/MS department as this had been a special

interest in college. Principally involved supporting users in the use of a couple of packages, one equivalent to a modern spreadsheet and the other an IBM PERT CPM package roughly equivalent to MS Project.. Fall / Winter 1981. The systems were IBM 4300s running DOS/VSE.

Litton Mellonics, Sunnyvale

Jan 80 - Sept. 81

First professional job as a programmer. Mellonics, named after the founders daughter was a silicon valley company that had contracts to develop the first generation of software for the Air Force Satellite Control Facility(AFSCF). The programming was IBM assembly and I spent a good bit of time on-site IBM, the first such of three spans. This was all design and communications work on the bid and early award phases of the AFSCF modernization contract in which IBM was the prime.

Northeastern Illinois University , Chicago

Spring 75 - Spring 77

RJE operator at this sites' node in a 360/155 system shared by NE and three other Chicago area state colleges via HASP. After this went back to school full time. and worked part of that time part time at UPS, got 4-year degree from DePaul majoring in Math/CS.

Retail Clerks AFL/CIO , Chicago

Fall-Winter '74-75

First time I had shift responsibility as operator. Shop was a 370-125 running DOS/VS. Guy who hired me was fired after causing large loss of data by scratching a dataset which was instructive.

Benefit Mutual Life , Chicago

Summer-Autumn 1974

Can place this by events known to have occurred during . Shop was a CDC 3000 machine and I was a secondary operator. in the summer and autumn. Earlier in year first actual programming t Control Data Institute (trade school). First EDP course at comm. college in teens a year or so b4.

1099

Northstar MLS

Biz Case #61

2014Q1 - 2015

Create AngularJS front end and a new level of the ColdFusion backoffice app of a major Real Estate Multiple Listing Service in the upper midwest. Main phase and some subsequent maintenance a year later (nsmls.thoughtcrime.biz).

domainregistrar.de

Biz Case #60

2014Q1

Create a C++ client/server implementaton of EPP for this German domain registrar the 26something largest in the world (dnseppus.meansofproduction.biz). Successful implementation of same but client failure to be able to deal with same.

Acordex

Biz Case #50

2012Q3 - 2013Q2

Upgrade client's 90's era VS6 MFC codeset for Netscape and IE to current browser universe and OS level. This and next item are being prepared as showcase items for my Windows practice which I'll display in my space in the context of my whole history on this platform back to IBM Boca. The delivery page for this is at <http://acordex.meansofproduction.biz>. C++.

LINQ/MVC3/SOAP-WCF E-Commerce Project Rescue March 2012

Subcontract to create digital version of an expensive trade newsletter. C# .net, SQL Server.

ColdFusion + JQuery gig February 2012

Short gig to work out a polished version of a drag and drop service selection UI/UX for a shop serving a health care venture. Can show this by appointment from my LAN. CF, js,.

Generic XWiki Derivative August 2011 - January 2012

Create a collaboration element for a client's workflow system using the XWiki Java package which is probably the best wiki package. <http://gxd.meansofproduction.biz> is the site supporting the generic intellectual property. Java, Groovy, Spring, Hibernate. Maven.

One Penny Per Mile February 2011

First Android app from scratch. Second GIS app (after the Pubic Transit/ESRI one in '04). Uses GPS.Generalized and made s available free on GitHub as the Green Travel Carbon App and for \$1 on Market. ADK / Java.

PTI / CourseSmart Android reader January 2011

First Android work completing the Android version of the CourseSmart eTextbook reader for a systems shop in Boston that does the actual development for CourseSmart. The largest of several feature sets was the note taking activity. iOS, ADK/Java.

Glide TV, Valley 2010

Custom version of Mozilla Firefox for this net tv venture. . This was a build of FF on Windows and Mac to work with the ventures device, a small hand held remote control. Used the mingw build environment on Windows and Xcode on Mac. Mozilla builds for this are in my web. C++, Mozilla build env, IDL, js, etc.

OpenAUC 2010

A C++ data acquisition system. Commissioned by two department chairs in biochemistry and funded by the post recession stimulus plan this project was to replace proprietary data acquisition software of Beckman used in Analytical Ultracentrifugation. C++ on linux and Windows using Boost libraries and few lesser packages. Windows was used for the device embedded portions. It is a system with a central server (Master Daemon) a device cluster server (Clever or Client/Sever. or Client Daemon) and the portion embedded in the devices (centrifuges and

associated optical instruments). There is an XMLRPC layer for high level interaction with external applications and a datagram layer for device to device and device to server communications.

Gamestreamer.com

Q2-Q4 2009

Made an installer builder for Windows using NSIS. This is C on unix but the installer of course run on Windows. The firm went into receivership or something and I received interminable mails as one of the creditors but nothing for the final invoices. Some of the games were quite large routinely involving GB of data.

simplycanvas.com

Summer 2008

First use of Cold Fusion (MX 7) done here. Work was integration between the .net web site and a COTS photography work flow system. This used C# primarily.

girlfriendsneet.com (GFM)

Fall 2006 - 2008

Maintained and developed this custom dating site infrastructure thru its peak period when it was the most popular in its niche until it was sold a couple years later. A couple of modules from the abuse reporting system I added are in the portal. I used WordPress for several items here, a community blog, and most interestingly for a WP site per user feature. This was mostly PHP but there was a Java server used to enhance performance on delivery of images.

I was the entire IT function for this from the time the owner separated from his original partner until he sold the site.

Minor Gigs in

2007-2011

Houghtonintl.com A Joomla 1.0 site I did some maintenance on for a shop in PA.

Surfingnosara .com - A Joomla 1.5 site I did some maintenance on for a shop in UT.

CubaCheese - a custom PHP site, maintenance done for a shop in Buffalo.

A Java Swing light table app.

A .Net app promotional site for a motivation/self-help speaker

A Flash touchscreen app for a NYC media shop providing services to BASF

Work on a new version of SheWrites.com as a Drupal site which was cancelled shortly after it began. Too many fingers in the pie I think and the owner decided to stick with Ning where she had personal connections.

Public Transit GIS Startup

2004

Second major Java use this used the ESRI ArcGIS service, WebMethods and there was a common lisp wireframe. Prototype was based on the NYC / MTA system and the program that parsed route description files is in the source codes section of the portal.

Wizdom Media, Manhattan

2002-2004

Worked with this boutique firm in NYC on two or three websites, think this was the first video work as one of them was for an ad agency with a client area to show commercials (Kinetic) and it's still apparently in the same state as of early 2011. This was perl-CGI on unix.

OddFlavor, Manhattan

Spring 2002 - Fall 2003

*This was a company formed by two employees of WinStar which imploded around 9/11 and they were able to get 3 of WinStar's accounts Nicole Miller, USCIB, and Atlantis Health Plans. They were creative/designer and business/sales respectively and I was IT. Each account had had a custom classic ASP CMS built that was the basis of their web operations and required on-going maintenance. The Nicole Miller system did live sales and passed orders to an AS/400 system. The HMO was a NYC area physician owned one and there was some work on claims processing outside the functions of the website.

QuoVadix, Manhattan

2000

Worked with this new media shop before it was acquired by the national firm of this name. Was first Java/JSP work (the Chronicles of Narnia quizzes/contests). Worked with them a couple of times later as well All work C or Java on unix.

A Jersey Graphics Shop , Rutherford

Q4 98 - Q2 99

*The work here was to create a B-B e-commerce system for Ingersol Rand in response to an initiative by Ford requiring their suppliers to provide same. I created a three part system with a (what is now called) classic ASP front end, an ActiveState Perl middle layer for biz logic, and a back end with an Access based ETL utility I called AnyFront which would populate the SQL Server E-Catalog database. A highlight of AnyFront was that it could accept data tables in the PDFs of IRs product catalogs by drag and drop onto Excel embedded in Access. Screenshots and the code from this which I then developed into a package I called XASP are at the portal.

XASP was applied a couple of other times of the next year (2000), in particular to a meetings and speakers shop in Manhattan called Forum.

Clinical Systems, Princeton

Q4 97 - Q3 98

Made a label design and print facility in Win32 C++. Sources for an early version of it are in the current web resume portal. The company provided software to pharmaceutical companies in the Princeton NJ area. This was done from scratch with basic Windows graphics functions of the time.

UPS Ramsey NJ

c. '97/8

This was a smaller business process reengineering effort and unlike the D&B and NyNex ones, was successful. I was given the hardest part which was the revision of the so-called tracer form which among other things would reproduce the digitally captured signature obtained at the point of delivery. This was C on OS/2 and a job shop was involved. I can't remember the exact date so putting it here.

IBM Research, Westchester

Q4 96 - Q3 97

This was my last contract inside IBM, again thru a contract shop, one of the larger ones. The department was more or less centered on HCI and had created an idiosyncratic markup language for creating what would now be called Rich Internet Applications. Used regular c., the infrastructure language which was called by the name of the department "ITS", or Interactive Transaction Systems. The language was published in one of the mainline journals of the ACM. The project was a partnering between Chase and IBM which automated the personal Auto Loan process. The job title was third level support. The ITS language was considered challenging and so the personnel were happy to find someone that could pick it up quickly.

Nynex, Manhattan

Spring to Fall of 95

Nynex was a baby bell that merged with Bell Atlantic to become Verizon. The project was another large scale reengineering effort like that at D&B and no more successful in the end but much larger and producing systems that actually worked. OS/2 workstations interfaced the backend mainframe systems and did live screen scraping off the green screen systems. Of course a contract shop was my actual (non-W2) employer. Coding was straight C.

Citicorp, Parsipanny NJ

Late '94 - early '95

Utility programming on the billing backend of a global currency trading system. This was first use of SQL Server, which at that time still only ran on MS OS/2. C was used.

Paper Clip, Hackensack

1992

Paper Clip was a pre web startup which asked me to create an email add-on for their document handling project. This was in early part of '92 and think C was used to create an X400 mailer but the shop was Basic and there was at least interfacing with the Basic code.

Dunn and Bradstreet, Basking Ridge NJ

April - August 1991

Worked on a large repository project in which D&B was attempting to integrate their disparate legacy systems in a modern relational store. The project was a failure as a distressing number of large software projects are but I was able to do some nice work for which I received commendation from D&B. I used Yacc and Lex to parse COBOL working storage sections for assimilation into a relational repository which was attempting to unify D&B's various legacy mainframe systems. C was the programming language.

IBM Boca

Q4 88 - Q1 91

Went back to IBM Boca for another 3 years. This actually was the main stretch of contracting at Boca. The first two contracts were in advanced system testing for OS/2 1.1, 1.2. I performed a number of the critical testing functions including performance analysis of the kernel and filesystems including the evaluation of the first version of NTFS against a competitor IBM FS.

**The longest single contract in this span was in the Systems Integration division on a contract with MCS to develop a fax server. I wrote a TCP/IP simulation facility which drive execution of test suites for the server. I modeled it on CodeView and it had the typical symbolic debugging capabilities. C was used on DOS although the fax servers themselves were OS/2.

Another contract with the same division involved creating a fault tolerant/hot plug capability for a fast food system called QuickServe being developed for Burger King. This was all C and was the maximum point of my using a coding style that heavily used macros to make very clear what the code was doing. Received complement on this that the code read like a story.

IBM Boca

March 87 - August 87

Beginning of second period of association with IBM, the main stretch as it were and this time for IBM proper, albeit as a contract/temporary employee. This first contract was component and system test for a handful of well known utilities for OS/2 1.0. Used C on DOS and OS/2.

American Kybernetik

I do biz under this name.

1981 - Present

This section has two subsections, miscellany and a description of some of my ongoings

For the first 10 years after I first registered this name name in Daytona in 81, I didn't actually do significant business under it, the US EIN 22-3131-862 was obtained in '91

Various out of band items:

- Python - did work for Public Transit venture prior to the one listed above in Spring of '01. Involved attempting to parse PDF files of transit providers to extract info provided manually in the latter venture. Used django first at GMRV and using it now in DCMS.
- Marketing Metrics - **A jersey scientific market research firm in Paramus for whom I created a web app for their client Motorola for a ridiculously small flat sum and very quickly. The app was a complete packaging of a questionnaire for Motorola telecomm swtich operators to assess customer satisfaction including basic tab statistics done in classic ASP with SQL Server in VB script., c. '99. Still have the code someplace.
- WordPress - GFM was the main use of this in particular the blog site per user feature mentioned but I also used in other paid work and you can see instances in my web.

- DBMS - Worked heavily with DB/2 but not in this century. SQL Server since the Citicorp contract c. '94/5 when it only ran on MS OS/2. Work with Postgres in my web but only slight paid work with it. MySQL use of course ubiquitous in this century. My caching engine developed at Givaudan can give a dramatic performance boost to any application using embedded SQL if a "full featured" DBMS such as Oracle, SQL Server, or Postgres is used.

- COBOL - only wrote full programs with it at Control Data Institute but in addition to times mentioned above, it was used at DBCC for the actual transaction programs, and the version of Lawson Sadlier had was based on it. It's still around and I don't have a problem using, there are free implementations these days for Linux.

- Linux - OS/2 was my main platform between '87 and '94 and at that point I tried BSD and Linux and found I much preferred Linux (Slackware at the time). Most but not all of the unix above means Linux, there was some AIX and Solaris. Of the roughly 10 active machines in my domains at the moment all but one only run Linux or dual boot it. I'm comfortable with any LSB distro and use Debian, Fedora, and NixOS regularly.

- VB6 - the XASP package was based on VB6 and I was one of those people who fully used the Visual Interdev environment including the debugger which was a real pain to set up. I no longer have my own VB6 environment but from what I've seen those who are still using it provide the environments. The XASP package is in the Source Codes section of the resume portal more or less in its entirety. Do have Windows 7, 2K3 server, and XP and VS 2K5 and 2010 Express.

- First work with Mac in '00 with an application of XASP at a mostly Mac shop, got my first iMac in '02. First specifically Mac paid work was the Mac version of the branded FF for Glide TV. I have a current iOS dev account but haven't submitted anything to the app store at this writing. Do have an inactive but working PPC machine with I think 10.4 and my current mac mini has 8GB RAM, have used for large image work.

- Mobile Practice – have done and am doing more iOS and Android apps, [here](#) is a portal.

Self Projects

The below have been in development for some years and are at different stages of realization in late 2017..

ai-integration.biz

The so-called dominion system a PAAS. **aii.biz** is the top level dominion, corresponding to the .dom top level DNS domain. "Dominion" is a term I use to designate the combination of two or more DNS domains unified as a single construct by the constituent projects below.

Cliu

C 六 is simply my distribution of the Drupal CMS with a curated set of modules for which [this page](#) lists instances.

MCP

Our OS abstraction. Combines a Common Lisp control image with the linux kernel modified single image operation across a set of nodes and integral with the DCP and WFL projects. MCP (Master Control Program) was/is the name of the original Burroughs (now Unisys) concept between the linux kernel the WFL level.

DCMS

Django based cluster admin facility which can be used as a standalone product for management of IPV6, SSO, etc. and is a vehicle for deployment of the aii.biz components. A second aspect involves a generalization of CMSes such as mezzanine, drupal, wordpress, etc.

WFL

Another recast Burroughs namesake (Work Flow Language). Main aspect is as an Eclipse workframe for literate programming, in arbitrary end langs. Additionally implement a version of the original WFL for integration of disparate pkgs in a IPC mechanism.

DCP

Domain Control Program, an AI based high level realization of the synthesis of the constituent domains of a dominion and MCP and WFL subjects. Includes a blackboard and expert system model of real time control and knowledge engineering components to build and maintain a backplane of intelligence supporting the domains of an enterprise.