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Summary

If you're looking for the *FASTEST* coder in a particular computer language... I'm not it. I can recommend you plenty of guys like that. But if you're looking for the fastest, best 'completer' of tasks, projects and problem solving, then I'm your person. By the same token, I don't build complex machines, but I figure why they AREN'T working. When I look back over my career, the common thread I see is that I vastly improve: how, why and what you have. I ... solve ... problems. Whether its fixing someone's computer/network or programming it. In every group I've gone into, along with getting done the 'responsibilities of the position', I am also able to look at how things are done and make the process better. My father was a shop teacher and taught me to improve 'whatever' *some*how. Maybe a new process is needed to make things run smoother. Or different language is needed to write better, more feature laden code. (I'm language agnostic, use whichever I need at the time, for the best result, re-kickstarting myself each time to remember whether to put a ';' at the end of each line, *sigh*) Does a product need to be rethought or replaced with a different one. And I do that withOUT having to BE the boss. In some places I've been, I *was* the boss. But in others, whether the lowest level or the highest, I always became the 'right hand man', helping those in charge get things done *easier/better/faster*. I don't have the ego to *need* to lead, but I do *if* its needed. In a land of specialists, I'm one of the few successful generalists. Yes, it has its good and bad points, I understand that. But I DO make things happen.

Missing-Pieces.com Nashua, NH   *Sole Proprietor*

- Help consumers and small/medium businesses with I&T and technology assistance
- Missing Pieces offers services ranging from:
  - Computer//network/home theater software & hardware problem debugging, resolution, repair
  - DVD/Video/Webpage creation from raw video/pictures/music
  - Custom software utilities/webpages in Eclipse Java, C/C++/C#, JavaScript, COM/Visual Basic, HTML, CSS, and others
  - Consulting in the areas of 3D CGI and multimedia production
  - Tutoring in all the above areas
  - Hands-on science events for schools, libraries and groups, involving hands-on work with dinosaurs, the space program and general science
- Wrote and copyrighted the interactive *interior* building mapping product *'Where Is'* because no one had ever mapped the interiors of buildings, giving 'where is' interactive location information about people, locations, businesses, facilities WITHIN buildings, unlike GPS systems. Much like the map at a mall labeling 'you are here', you can type in where you are and then ask 'where is' someone/something (meeting room, bathroom, copier) and have it pointed out to you, right on a map of the building.
- Wrote and copyrighted the junk file removing utility *'Clear Junk'* to keep people's PCs clear of the junk files that build up and give viruses a place to hide. *'Clear Junk'* goes into areas no one else goes and gets rid of the 'leaves and twigs' in the backyard of your PC where rats and other varmints like to hide and screw up your machine!
- *All 5-star ratings on Thumbtack.com*
- *Received the Best of 2013 Web Designer Award*

Lotus Software/IBM Westford, MA   *Senior Software Engineer*
- Cut 8 months off the development cycle of the initial Client of Lotus Workplace. Client and Backend server were wrongly being developed simultaneously, leaving the Client team with no database for 8 months. Wrote, in couple of weeks, a horrible (to the 'pure' 1 language programmer) multi-language 'bridge' from the defined Java Backend interface of Workplace, to existing Lotus Notes databases, by going from an emulating Java class to:
  - A Java/COM interface from Eclipse
  - Calling a Visual Basic program with the desired database request
  - A VB/COM interface into Lotus Notes
  - A LotusScript library designed to handle and retrieve Notes database requests
  Thus cutting the 8 month delay of starting Client development down to 2 weeks.
- Designed and wrote the 'User Settings' Java code for Lotus Workplace.
- Resuscitated *NEW* IBM PCs that came in 30% DOA and used parts from outdated Dells to enhance them for dual-screen programming, to get Workplace groups programming. This was what led me to start my own IT company, *Missing-Pieces.com*, repairing people's technology
- Eliminated the duplication of effort/time of writing the same Lotus Notes test code for Java, LotusScript and Visual Basic languages.
  - Wrote a translator to automatically convert and execute existing LotusScript tests into COM/Visual Basic, VBScript and Java languages
  - Provided 'same test' reliability, repeatability, consistency and reporting of results
  - Led the team switching them to this environment
  - *Rumors that this was thought to be impossible were... inaccurate.* ;-)

NEC Technologies Boxboro, MA   *Supervisor & Senior Engineer*
- Invented, deployed and led the first manufacturing line process to integrate pre-loading of the Windows OS and applications onto PCs, as they are manufactured.
  - Before, PCs were loaded by hand or not at all, since Microsoft said it wouldn't work
  - Wrote the C/C++ tools to reverse engineer installed products & package it for re-use
  - Slashed the time needed to develop a PC 'pre-load' 10 fold
  - Made the process reliable, repeatable, testable & customer customizable
  - Assembled and led the team supporting this architecture, interviewed with the phrase "Do you like pain?" (not allowed to say THAT any more in interviews! ;-)
  - *Now the industry standard*
- Invented the first bootable Restore CD-ROM for inclusion with every NEC PC
  - Allowed the user to restore his PC to 'As From the Factory' condition in case of failure
  - Wrote it in easy-to-use Windows-like Visual Basic for _DOS_ to make it easy to produce on a single bootable CD, yet be familiar to the customer
  - Saved the company millions in including diskettes with systems and support calls
  - Originally made it for the Lechmere people, to restore an NEC PC to pristine shape, to show off the machine better, after customers screwed up a machine on display!
  - *ALSO became an industry standard*

Oxford & Associates Nashua, NH   *Contractor*
- Contracted to Apollo Computer to fail. Yes, the project was contracted out because they determined it couldn't be done, so they wanted someone they could fire afterwards, not a regular employee. Only problem was, I made it work.
- Architected and wrote a 'device-independent' 'printer server' architecture and C/Pascal software for their network operating system AEGIS, enabling printing from any application to any printer on the network, without having to load 'driver' software on the workstation to support that device. This allowed for transparent printer support, unlike current Windows or Apple technology.

- Much less of a support nightmare. Used 3rd party graphics subroutine libraries to support hundreds of devices and created an API to easily access the software from remote workstations.
- It was thought to be impossible to implement, but did similar work at Booz Allen, that gave me the experience to make it a reality, to the client's [mixed] surprise. They extended my contract.

Booz, Allen & Hamilton Lexington, MA   *Senior Consultant & Head Engineer*
- Invented 'Visual Information Systems' (precursors to Powerpoint/Internet/multimedia) to deliver distributed graphical/textual information (charts, slides, pictures, video) within military/government and Fortune 100 concerns.
- Led a group of engineers and artists in creating, maintaining and evolving a PC/Mini-computer-based system for delivering information from desktops all the way to boardrooms and mission rooms, using PCs, graphics terminals and projectors.
- Developed Presentation Systems (BEFORE the advent of full color PCs) using 3rd party mini-computer graphics software with easy-to-use C and script-based user interfaces to allow normal clerks and secretaries to quickly create 'briefings' of charts and graphs with NO graphics knowledge.
- My artists created pre-defined 'looks' based on customer standards to provide high quality, yet consistent and easy to use input for staff.
- Saved the government millions, not having to send information displays to slow, dedicated 'graphics shops' that at that time handled all things like this... by hand.
- *The Air Force dubbed my group the computer version of the famous 'Skunk Works', for its efforts.*
- *Was the only Senior Consultant/Manager to wear out the knees of my 3-piece suits, because I would do any work I assigned to any of my people*
- *Had Secret Clearance Level*

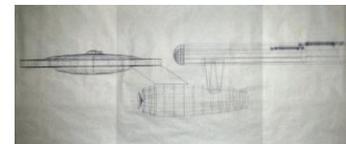**ComputerVision Corp** Bedford, MA   *Project Manager & Software Analyst*
- Saved user effort by changing the user interface while leading the 3D Solid Modeling group.
  - To be far more intuitive and user friendly, introducing the concept of working from a 'basic' solid to a more complex one
  - Rather than their old way of tediously inputting a complex solid, with by-hand math
- Created the user interfaces and under-lying FORTRAN code for Architecture/Civil Engineering commands in that product area of 3D CAD/CAM design.

RPI Center for Computer Graphics Troy, NY   *Project Director & Programmer*
- Created full 3D rendering subsystems and applications to demonstrate the superior rendering of objects using 3D SuperQuadric Computer Graphics equations, using FORTRAN, Basic and PL/1.
- Wrote 3D simulations of:
  - The Space Shuttle deployment of a proposed Grumman Space Antenna
  - An energy-conscious-designed building on campus
  - The Starship Enterprise, that got me an interview and job offer from Gene Roddenberry, the creator of Star Trek, to work on Star Trek II:Wrath of Khan where this image can be seen in the Bridge scenes where the Turbolift opens!

Received a Bachelor of Science degree in Civil Engineering and minors in Architecture and Computer Graphics from Rensselaer Polytechnic Institute in 1981.