Dear Sir/Madame:

I am currently seeking employment as a Principal Software Engineer. I have fifteen years of software development experience on a variety of applications, platforms, and languages. I am looking to continue working using my Java, COM/OLE, Internet, and e-commerce experience. I have worked at IBM on electromagnetic modeling in the BlueGene group.

I have been doing independent research using Numenta's Platform for Intelligent Computing. See http://wheger.tripod.com/nupic/nupic.rtf. I am trying to formulate a Kalman Filter using Hierarchical Temporal Memory as the predictor.

A synopsis of my NuPIC involvement can be found at

http://wheger.tripod.com/nupic

https://www.youtube.com/watch?v=rTII4pDnrVc

My M. Sc. thesis is at http://wheger.tripod.com/thesis/htm/thesis.htm.

My hardest programming skills were demonstrated in my code to convert from Constructive Solid Geometry to a boundary representation used in 3D geometry which can be seen https://github.com/heger-valter/CAD/tree/master/STEP.

I have worked at Mitsubishi and Intergraph on Vector Hidden Line removal for numerically unstable formulations. See http://wheger.tripod.com/vhl/vhl.htm

I had opportunity to be involved in the entire spectrum of a project from beginning to end. I have presented ideas in initial design review meetings, created flow-charts, drew state diagrams, provided detailed documentation, wrote pseudo-code which was reviewed during group review, wrote executable code which was also peer reviewed, wrote batch test code to demonstrate functionality of various subroutines, helped isolate and debug code during integration testing, and helped provide verification during customer sell-off.

I have written algorithms to convert Constructive Solid Geometry to Boundary Representation in STEP file format

https://github.com/heger-valter/CAD/blob/master/STEP/StepSer.cpp

Sincerely,

Walter Heger