John Keil

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EDUCATION

Purdue University, Indianapolis, Indiana
B.S., Mathematics, 1993, minor in Physics

SPECIAL TRAINING, CERTIFICATIONS, ACCOMPLISHMENTS

HNTB training Inroads Storm and Sanitary, Inroads Geometry and surface
HNTB training Bentley Project Wise
Trimble geomatics office
HNTB training in LIDAR and LIDAR processing techniques including GPR integration and integration of point cloud data with Revit.
Machine Learning, Coursera, 2012, Coursera,
Computational Neuroscience, 2011 Coursera,
Quantum Computation, 2013 EdX,
Programming Massively Parallel Systems, 2015 Coursera. CUDA and Open CL and MPI programming for massively parallel systems using C.

EMPLOYMENT HISTORY

2014 – Present	Consultant. Software application developer for Cansel Survey Equipment, Burnaby, B.C. Developed applications to compute quantities, construct 3D models using predefined 3D components from field spreadsheet data and transform coordinate matrices in AutoLisp. VB.net. and C++. Responsible for a major update of a custom civil engineering application written in C and C++
Nov. 2015 – Present	Beam, Longest, and Neff, Indianapolis, Indiana This project involved the creation of custom standards and styles used to control the way that InRoads generates elements for models and drawings. Setting up these styles required gathering and understanding the requirements of both the drafting and the engineering staff and required constant communication to ensure the end goal of streamlining project production.
2015 – Apr. 2016	Veritis, Irving, Texas, contracted to Wells Fargo through APEX staffing Developed an automated routine to convert a very large drawing base formatted for use in Triregga to a format which would work with Serraview. This assignment involved a large amount of computational geometry and was programmed in c#.net. I also

served as an advisor on ways to reduce or eliminate custom code from the upgraded Triregga document management System.

2014 – June, 2015	V,S. Engineering, Indianapolis, Indiana CAD drafting and Right of Way technician
2011- May, 2014	Collabera, Indianapolis, Indiana, Analyst, IT support, Engineering document management. Contracted to IBM supporting Eli Lilly. Responsible for customizing Enterprise Engineer configurations using McClaren Studio, Wrote .net applications to generate reports from the Enterprise Engineer backend Documentum database. Responsible for daily support and administration of the application including responding to trouble tickets from users recovering stalled workflows and ongoing work to repair migration problems from previous upgrades. Techinical lead for upgrade project from Lilly EDMS 3.0 to 3.1 (upgrade from Enterprise Engineer 3.5 to 3.6) including testing and upgrading of VBA applications to .net. Administered Windows 2003 and 2008 sever and Redhat Enterprise Linux.
2003 – 2011	HNTB, Indianapolis, Indiana, Project Surveyor, LIDAR and CADD specialist. Wrote VBA programs to generate plan and profile sheets for projects and to generate coordinate tables on drawings from Land Desktop database. Also wrote MDL programs for Microstation (a C based language used in customizing Microstation). Maintained GIS database and wrote reports using Crystal Reports and Excel.
1995 -2003	Butler Fairman and Seufert, Indianapolis, Indiana, Right of Way technician. Wrote VBA code to automate description writing and drawing production. Word and excel macros to support these functions.