## Fred Eisele

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TECHNICAL SKILLS Language: Java, Clojure, Python, C/C++, XML, XSLT, Antlr, SQL, PERL

Platform: Netbeans, Eclipse, VisualStudio, Intellij, LightTable Operating Systems: Microsoft Windows 7, GNU/Debian Linux

PROJECT SKILLS

Production level architecture and API design

Development of complex middleware for mobile and ad-hoc networks

Rapid data-centric and model-based parallel application development architectures

Project management and technical project leadership

Database schema design and administration Distributed programming and algorithms

**EDUCATION** 

MS Computer Science, Vanderbilt Univ. in-progress BS Mechanical Engineering, Mich Tech Univ, 1982

**EXPERIENCE** 

Senior Staff Engineer Vanderbilt ISIS 2007 – Present Advanced Vehicle Make: DARPA

Implementing elments of a collaborative product assembly design frame. This includes a geometric linkage assembler and adapters for open-source and proprietary CAD packages. The distribution mechanism is speculative and asynchronous.

Android Mobile Middleware (Transformative Applications): DARPA Developed opportunistic speculative data distribution middleware for Android. Developed rapid prototyping mechanism for parallel prototyping of user experiance and data distribution services. This system employed code generation of data-store, distribution policy, and a reference user interface, from models.

User Interface Validation with Rapid Prototyping (Future Combat Systems): ARMY Developed a layout manager service, a layout browser, and custom widgets. Developed a custom map widget supporting mil-spec symbology. In that widget developed a set of gestures for generating mil-spec symbols on touch screens. Developed a custom widget for live streaming of camera feed suitable for robotic control. Developed a custom 3D widget for viewing simulated vehicle movement.

Project Coordinator General Motors Research 2006-2007 Conducted research in advanced temporal data mining algorithms. Ported and adapted algorithms into multiple engineering environments. Contributed to technology improving clarity, stability, and scalability of the data prospecting products.

Chief Developer Netarx 1998 – 2006

Researched and applied technologies to the development of the Remote Network Monitoring Management System (RNMS), including: XML-based technologies (XSLT, XML Schema) for network protocols, system control, and archival storage of network data. Developed statistical techniques for discovery and tracking of "interesting" phenomenon. Developed Project Management Processes and Delivery Techniques incorporating RNMS with customer and technical/service personnel.

Engineering Software Developer GM/EDS 1986 – 2000 Die Casting Analysis System

Manufacturing Process Analysis System used in reducing scrap rates in large complex castings, saving the company millions of dollars.

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Targeting Public Relations and Recruiting by providing Engineering and Logistics Services to multiple University and Company Teams.