Paul Sorey

9021 12th Avenue SW
Seattle, Washington 98106
paul@paulsorey.com
(206) 948-7285

WEB DEVELOPMENT Summary

- **Front-to-Back Web Development using Ruby on Rails,** three years
- **Database:** PostgreSQL, PostGIS, MySQL
- **Front-end:** SASS/CSS, HTML, Ajax, JQuery
- **Deployment:** Linux / Apache2 / Passenger / Ubuntu VPS setup and administration
- **Version Control:** Git

SOFTWARE DEVELOPMENT Summary

- **C++ development for interactive 3-D applications,** ten years
- **C development for embedded control devices,** three years
- **Assembly language development for embedded control,** two years

WEB PROJECTS

Greenwood Streetscapes funded by Seattle Department of Neighborhoods. Front-to-back development of website that provides a database of users and tools for collaborative planning and design, including interactive GIS mapping tools, both for capturing data about what people already know and do, and for enabling them to draw design ideas over existing maps and aerial photos. To see this project visit http://greenwood.streetscapes.org (to see more sign in as psorey / passwd: secret). You can see the code for it at github.com/psorey/neighbors_maps. Rails 2.8, PostgreSQL, PostGIS, Mapserver, OpenLayers.

ZebraTime. Multi-user online time tracking that communicates with QuickBooks accounting software using QBXML and the QuickBooks Web Connector. Rails 2.8.

9021twelfth.com Simple CMS / website generator for a real estate agent; each house has its own website, such as 9021twelfth.com. Agent can easily upload photos, update text. Agent was currently using a commercial site to do the same thing, but they could not style it to her specifications. Rails 2.8, Paperclip.

PaulSorey.com Simple site illustrating both my software project experience and my public art. You can see the code for it at github.com/psorey/paulsorey.com. Ruby Sinatra.

BBA-Design.net Simple website for a product packaging designer, designed by her, implemented by me. Plain HTML.

SOFTWARE PROJECTS

Rain Drums. Technical design, fabrication and installation of digitally-controlled water drip system to make rhythms. Windows user interface (C++/MFC) for managing and streaming MIDI files to a controller (designed by me and programmed in C) that turns on and off solenoid valves to create rhythmical drops of water, and winterizes the system in freezing weather. Installed 2001. Upgrades to system 2005-2007.

Topography Tools, Created ARX (C++) modules for AutoCAD, tailored for designers of topographic landscape elements. 2006.

Roadworks Artwork. I made a 3-D model of the sculpture, then wrote object-oriented software to analyze the model and create the instructions to drive the embedded controller (Atmel microcontroller) and map 500 LED addresses to positions on the sculpture. C++ software models traffic on the 'roads' by creating a random number of vehicles with random destinations and makes sure 'vehicles' do not collide at intersections. C++, OpenInventor 3-D api, Atmel microcontrollers, embedded Debian Linux.

Salmon Waves. Embedded controllers (Atmel) designed by me control rows of 40 LED's to create images of swimming fish. Programmed in C.

Sustainability Award Artwork. Similar to a pinball machine, the identity of a ball is determined by detecting an RFID tag, and stepper motors control the motion of the balls along the track. The balls stop at certain points and trigger display of relevant information (HTML pages) on the computer monitor. RFID, C++/MFC, HTML.

EMPLOYMENT

Sightworks, Owner. 1999 to present. For the last three years my work has been mostly web software projects in Ruby and Rails and educating myself in all aspects of web application development.

Jones and Jones, Architects and Landscape Architects, Seattle, WA. 1988-1999, and contract work in 2009. Landscape Architect on many interesting projects including Woodland Park Zoo, San Diego Zoo, Singapore Botanic Gardens.

EDUCATION

University of Washington, School of Art, Seattle, WA, **Master of Fine Arts in Sculpture,** 1993.

I spent most of my two years studying how computers work, and embedded hardware and software design. I wanted to be able to animate my sculptures. Flock was my thesis project.

Utah State University, Department of Landscape Architecture and Environmental Planning**,** Logan, UT, **Bachelor of Landscape Architecture**, 1984.