

PRINCIPAL SOFTWARE ENGINEER

Summary

Principal Software Engineer adept at architecture design, test driven development, system deployment and maintenance. Excels at [Perl](#), [Python](#), and [C](#) application development. Proficient at mentoring small teams to produce highly productive engineers. Extremely successful systems in production.

Highlights

- System Architect
- Machine Learning
- Artificial Neural Nets
- Big data
- ETL
- Web development
- Linux System development
- Embedded Systems
- Raspberry PI

Accomplishments

- Machine Learning system - High accuracy license plate reader
- Image processing system
- Host data collector system
- Embedded system development with Raspberry PI
- DBA and System Admin for the Port of Long Beach
- Lee County, Florida Toll Road
- TCA Toll Road
- Halifax Toll Road
- ASIC Pre-Silicon validation
- Firmware ROM Resident Diagnostics

Experience

11/2014 to Current

Principal Software Engineer Fis i¼ Middleburg , FL

- Automated system admin for the Port of Long Beach
- ETF TCA host system - refactored
- ETF Halifax host system - refactored
- Image auditing system for TCA
- Traffic Citation interface to the Court for Lee Way
- Machine Learning for image processing
- Artificial Neural Network R&D

02/2002 to 05/2014

Principal Software Engineer Fis i¼ Arvada , CO

- ETF Host server for the TCA toll Roads
- Image Processing system
- ETF Host Server for the MnPASS toll road
- ETF Host Server for the Halifax toll road
- Apprentice program
- Embedded lane system development

02/1999 to 07/2001

Senior Validation Engineer Abbott Laboratories i¼ Buffalo Grove , IL

- Memory Controller Hub validation
- ASIC Pre silicon validation
- Chip modeling

02/2000 to 07/2001

Consultant Software Engineer Transcore i¼ City , STATE

- Embedded Toll System maintenance
- Integrated cash collection devices
- Software architecture

Education

Bachelor of Science : Computer Science University California Irvine i¼ City , State , USA Computer Science University California Irvine

Bachelor of Science : Mathematics City , State , USA Mathematics

Skills

Operating Systems: Linux, Windows

Source Code Control: git, SVN, CVS

Databases: MongoDB, Oracle, DB2, MySQL

Programming Languages: Perl, Python, C, javascript, php

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