**Joseph J Mills**

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**Experience**

**Synexxus Inc**

Dates: present

Job Title: Senior hybrid engineer

Created gui configuration tool for embedded Linux device. Created HMI(arm based imx6) for monitoring of power transformers in the field. Wrote a custom operating system. Linux kernel development. Uboot development. Imx6 custom board development. Continuous integration and deployment of the auto building stack. Integration of protocols including but not limited to modbus, dnp3, iec61850, and google protocol buffers, Along with many analog devices. Custom driver support for device integration. Custom gstreamer plugin's. Over 20 Custom Qt and Qml libraries. Wrote and maintained over 300,000 lines of code while keeping all code cross platform (osx/ios, android,linux and windows), Wrote custom debian packaging. Wrote custom installer for the osx and windows platform. Integration of 3rd party gnu/linux programs to windows, ios, osx and andriod.

**Satoshi Fantasy LLC**

Dates: March 16 - August 16

Job Title: Senior software engineer

Wrote the front end for a fantasy football block chain based game, for the following platforms. iPhones, iPads, Android , OSX, Windows and Linux. Developed three (core ,blog and forum) custom websites based on material design principles. Fully responsible for integration into the itunes store and also androids play stores. Wrote websocket light client and server base for other engineer to use and alter. DEVOPS work on L.A.M.P and L.N.M.P stacks. Custom Irc chat integration. Heavy c++ integration for pixels to grid units and vice versa. Custom rendering for form factors including phone, phablet, tablet, desktop and TV.

**SafeFire Inc**

Dates: July 15 – December 15

Job Title: Software Engineer

Wrote a software development kit that was used to monitor temperature of coal burning power plants. Connecting to cameras over ethernet and writing algorithms that used pixels to calculate temperature. Wrote over 50 custom classes and over 15 front end applications Wrote a custom zeroMQ protocol and also a web sockets one. Integrated the product to be from windows based only to multi-platform

**Infinite Automaton**

Dates: September 14 – July 15

Job Title: Senior Linux System Administrator / Software Engineer

Develop and maintained a custom Linux operating system for embedded platforms. Developed various in house tools. Wrote many custom libraries for the Qt framework including QML. Developed many custom applications. Developed multiple custom Debian packages. Developed custom application that builds the Linux kernel, Uboot and also file systems systems for embedded devices. DevOps Work and Maintained many embedded servers

**Independent Contractor** (2004-2014)

Various projects for multiple customers including but not limited to Canonical, Intel, Yellow Page City, Rochester Web development, Bausch & Lomb, Primark.

**Examples Of Qualifications**

Wrote front-end user interfaces and back end libraries in Python, Perl, C++, C, Html5, CSS, jQuery, Ajax, React, Qt, Qml for phone, tablet, tv, and desktop

* Worked on fixing bugs in Linux kernel, LXC containers (Intel)
* DevOps work, coding as required for integration of VOIP, SAP systems
* DevOps work, coding as required for integration
* Setup and integrated speech recognition system, database interfacing, custom integration software including user interfaces

**Experience includes but not limited to**

* Puppet, Ansible, Chef, Salt
* Full understatement of TCP/IP and UDP protocols
* Complete understanding of webSockets, zeroMQ and other RPC protocols
* Database engineering (SQL and no-SQL)
* Dynamic load balancing (VPN, Proxies, etc.)
* Continuous integration software (Gitlabs CI/CD, Jenkins, BuildBot, Yacto, Travis, WannaBuild ECT) including writing my own
* Firewall configuration (pf-sense, shorewall, ip-cop, iptables, ipchains, firewallD, Simplewall, Cisco(pix, asa, acls)
* Apache, Nginx, Jetty, LightPd, configuration
* Debian and RPM based packaging hosting and auto building
* Git, SVN, and other various subversion control
* Custom software installers
* Custom Linux auto builders
* Custom Web front-end skills that harness C++
* EC2, OpenStack, juju, Azure, Heroku, Could foundry, Nimbus,Zen, KVM, Qemu, LXC, LXD, Docker, VMware, Virtual Box

**Skills**

With over 20 years of programming you learn a couple of things. I am sure that I am missing a couple of skill sets below. For any questions what so ever please contact me.

Nothing is a ten out of ten as there is always room to improve or make something new. *--Joseph Mills*

**Programming languages**

**Fluent:** C, C++, QT, QML

**Intermediate:** ruby, C#,Go

**Adequate:** Java, D

**Web Development**

**Fluent:** html5, css3, perl, jQuery (including many libraries) JavaScript (including many libraries), JSON, XML, php, yaml, spring-framework

**Intermediate:** asp classic, asp.net

**Adequate:** ColdFusion

**Scripting**

**Fluent:** awk, bash, sh, sed, python, Qml, Batch

**Intermediate:** perl, ASH, LISP

**Adequate:** Power Shell

**Database**

**Fluent:** MySQL, mongoDB, postgre, sqlight, Berkley DB

**Intermediate:** borland, odbc, sysbase

**Adequate:** odl, sparksee, db2Everywhere, jdbc