

# ERIC GUSTAFSON

Software Architect | Technology Leader | Cloud Native | DevOps | Monitoring | Networking

**Fields:** Software Architecture and Development, Cloud, Monitoring, Networking, DevOps

**Cloud:** Microservices, Kubernetes, Rancher, CoreOS, OpenStack, AWS, Google

**Technologies:** Go, Python, Java, C/C++, Ansible, Chef, Nagios/Icinga, ELK, Hadoop, Kafka, RabbitMQ, ZeroMQ

**Leadership:** Transformational Idealist, Mentor, Hands-on, Indirect Influencer, experienced People and Project Manager

Colorado Springs, CO, USA

[www.elfwerks.org/ericg](http://www.elfwerks.org/ericg)

[ericg@elfwerks.org](mailto:ericg@elfwerks.org)

+1.719.359.4112

## Summary

Agile, detail oriented, hands-on technology leader with excellent communication skills. Extensive experience in Cloud native development and operation, DevOps, System Management, Monitoring, Networking and Messaging.

## Professional Experience

**Architect** - Software Defined & Cloud Group, Hewlett Packard Enterprise (HPE) 2016 - 2017

- Design and development of HPE's project 'New Stack' - a continuation of the R&D effort done under the ATG.
- Kubernetes connector - software networking technology that enables communication between K8s clusters.
- Assess and set technical direction for components in 'New Stack', including API Gateway, Monitoring, and Analytics.

**Principal Engineer** - Advanced Technology Group (ATG) for Cloud and Open Source, HPE 2014 - 2016

- Incubate and influence new technology adoption across HPE with an emphasis on Cloud focused business units.
- Kubernetes, CoreOS, nesting Container & VM env's, System Mgmt & Mon, Ansible, ELK, Load Balancing, IPv6.

**Engineering Manager** - Monitoring, HP Cloud, Hewlett-Packard 2011 - 2014

- Lead the design and operation of HP's Public Cloud (internal) monitoring and customer Monitoring-as-a-Service.
- Cloud Native & DevOps, OpenStack( Nova, Swift, Glance, pre-Neutron ), Chef, collectd, RabbitMQ, Icinga, HAProxy.

**Principal Engineer** - Melodeo Inc. & HP Music, Hewlett-Packard 2005 - 2011

- Responsible for multiple, back-end components in the Melodeo service: music ingestion, transcoding, and delivery.
- Amazon-WS( EC2, S3, SQS, EMR, RDS ), Java, Python, Ruby, elastic transcoding, music CODEC's, Hadoop/HIVE.

**Principal Engineer** - Continuous Computing 2003 - 2005

- Developed ARM & x86 firmware/BIOS for multiple lines of blade servers. Chassis management module dev.
- ARM & x86 assembly, PXE, embedded Linux & kernel development, remote GDB, BusyBox, Python, GCC x-compile.

**Software Engineer** - *various employers* 1995 - 2003

- Voice over IP, CPLD Partition, Place, & Route (CAD/EDA), Criminal Link Analysis, Remote Medical Coding.
- C++, Java, CORBA, distributed & network programming, heuristic algorithms, Data Center scale networking.

## Education

**Bachelor of Science, Computer Engineering** - Valparaiso University 1989 - 1993

- Ada language research enabling cross-host communication using language primitives - drove changes in ADA95.
- Focus on embedded system design (68k), networking, and VLSI design.

**Masters of Science, Electrical Engineering** (unconferred) - *Universities of Colorado & Houston* 1993-1995

- Research: "Multi-threaded Processor Cache Coherency", "CPLD Design for Test", developed Embedded Sys. course.
- Computer Architecture, Digital Design, Digital Signal Processing (DSP), CMOS/VLSI Design, Neural Networks.