CHRIS A. TREES

SR. PROGRAM MANAGER & RESEARCH DEVELOPER

💼 EXPERIENCES

2018 | 2012

Research Developer
Mail Services, LLC 📍 Des Moines, IA (remote)

- Researched NFC production process to leverage USPS commercialization incentives.
- Evaluated and integrated AGILE, CI/CD, QA testing and system virtualization.
- Evaluated Angular, Ember, React, Vue, Backbone and Polymer.
- Intro Team for Atlassian JIRA, Confluence, Bitbucket and Bamboo toolchains.
- Evaluated production site processes for refresh and maintenance sustainablity.
- Production site was a PHP frontend with restricted storage, network, and SQL database.

2012 | 2010

Sr. Software Engineer / Field Sales Engineer
OvalPath 📍 San Jose, California (and remote)

- Social Mobile communications platform serving the commercial nuclear power market.
- Developed HTML5 map annotation for mobile field devices.
- Established QA Test Automation and build documentation.
- Worked as Sales Engineer with CEO to adopt the platform to specific needs of new customers.
- Acquired by CurtissWright.

2010 | 2002

Consultant
CAT Services 📍 Cedar Falls, Iowa

- **Croft Utility Partners** Cloud infrastructure design for small communities.
- **Grasshorse Animation Studio** "Proto-Motion" mixed media stop motion animation.
- **Vianeta Communications** Training materials for data center installation and testing.

2002 | 2001

Founder / Architect
Pantera 📍 Mountain View, California

- Matrix grid network of distributed storage and compute engine for accelerated batch processing.
- Using COTS servers, a grid of indexed storage was used to maintain matrix reduce results in cache.
- Pantera IP was a matrix index tracking of distributed cache algorithm partials for performance.

2001 | 1985

Previous Millennium
Company & Project per line 📍 Various, California

- **Fusion One -** Integration of Levient redundant high availability server infrastructure stack.
- **Monggo -** Remote desktop service using WAP devices (cell phones).
- **Vertical Networks -** Lead hardware & mechanical design for telephony product "Instant-Office".
- **Rapid City Communications -** Built high-speed-density backplane for VLAN switch.
- **SkyStream -** FPGA design for video streaming switch.
- **Sun Microsystems -** Netra group consultant for an embedded user control console.
- **IKOS -** Field Applications Engineer for ASIC simulation products.
- **General Magic -** Partner development systems. Created touch based magic cell phone prototype.
- **National Semiconductor -** Custom FPGA for ISO-Ethernet product development kit.
- **Hughes LAN -** ATM network switch hub chassis backplane and FPGA based control bus.
- **The Engineering Dept (TED) -** PC Transporter Apple II card used to run IBM Software.
- **Lockeed MSC -** P387 - Video display subsystem control board and test station.

🎓 EDUCATION

1985 | 1980

B.S. Electrical Engineering
Iowa State University 📍 Ames, Iowa

Math Honors, Nuclear Engineering Studies

Courses (selective list)

- Docker and Kubernetes
- DevOps: Advanced Kubernetes
- DevOps: Automation with Terraform
- Ansible Automation
- Cumulus Linux and Ansible
- GNS3 Advanced Switching
- React, Redux & Firestore
- Flutter, Dart & Firebase
- Progressive Web Apps (PWA)
- Appium Mobile Automation Testing
- Machine Learing with Python & R
- Ethereum Developer
- Xamarin: Android and iOS shared C# Code
- Web Development with Go
- Active Directory Lab using Hyper-V
- Complete Blender Creator (3D Modelling)

CONTACT INFO

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MANAGEMENT

Program Management
Start-up Consulting
Strategic Partnerships
Intrapersonal Networking
Grant Funding
Venture Funding

IP MANAGEMENT

DevOps & SecOps
CI/CD/CO
SDN & SDS
OpenStack, Mesos & Proxmox
VirtualBox, VMWare & Hyper-V
Docker & Kubernetes
Nagios & WhatUp GOLD
TheDude & SolarWinds
TCP/IP Stack
DNS Bind
iPXE & UEFI
SNMP
Snort
Wireshark
pfsense, ClearOS & Smoothwall
Active Directory
Kerberos
OpenAFS
Windows Defender
LDAP

SOFTWARE

Agile Methodologies
Extreme Programming (XP)
Cloud Computing
Release Management
LAMP Web Stack
MySQL, Delphi, MariaDB
PHP, Phython, Bash
Node, JS, React & Angular
Dart & Flutter
Progressive Web Apps

HARDWARE

ECO & BOM Management
Hardware Architecture
Firmware Design
FPGA & ASIC Design
Verilog, VHDL
OrCad, PADS, ProTel