Jeff Allen

IT generalist experience on the shortest path to solutions

Searching 80% employment, available February 2024.
Mont-la-Ville, Switzerland

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Skills

An experienced project manager and technical architect with a proven track record of integrating technologies from backend, to ERP, to embedded systems. I am able to grow a team, mentor junior engineers, and nurture a culture of respect, innovation, and trust. I am equally effective in not-for-profit, academic, and commercial contexts, thanks to my wide experience.

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Experience

Pie Aéronefs s.a. / Member of the Technical Staff
June 2022 - Nov 2023, La Sarraz, Switzerland

In a start-up context, I delivered advice, solutions and creativity in various domains related to the design and manufacture of innovative electric airplanes. Responsible for Flectra/Odoo ERP deployment for HR, timecards, and MRP for composite manufacturing with aerospace quality requirements. Developed the ISO 9001 (and AS 9100) QMS. Designed and procured the avionics system for the UR-1 race airplane. Responsible for the integration of a battery electric powertrain into our airframe. Contributed open-source software related to aerodynamic design and CAD modeling.

DEDIS Lab at EPFL / Lab Manager
Jan 2019 - Jan 2021, Lausanne, Switzerland

Recruited, mentored and led the lab's engineering team, delivering Cothority, a platform for deploying decentralized applications . Project and financial management for a range of projects and funders (Horizon 2020, EIT, and industrial partnerships). Applied Distributed Ledger Technology to several domains, including Data Security, Patient Consent Management, Local Cryptocurrencies, and Voting.

DEDIS Lab at EPFL / Software Engineer
Nov 2017 - Dec 2018, Lausanne, Switzerland

Delivered production quality software for use by students to jumpstart their experiments, and for industrial and academic partners. Delivered a blockchain-based e-voting system for the EPFL community. Devised an innovative method to tie ephemeral TLS certificates to long-term public keys from incompatible crypto suites.

Médecins Sans Frontières (MSF) / Unifield Backend Support Engineer
Aug 2016 - Oct 2017, Geneva, Switzerland

Designed and implemented innovative approaches to bringing a widely and remotely deployed web app up to best security practices. Deployed HTTPS

using certificates from LetsEncrypt using an intelligent reverse proxy.

Cisco / Software Engineer
Nov 2009 - Aug 2015, Rolle, Switzerland

Researched creative ways to apply multicore hardware to an OS engineered for single cores. Ported Linux to a Cisco router (PPC). Sustaining engineering, culture evolution, putting in place Agile development in the context of developing Cisco's IOS and NX-OS (IP SLA component). Ported network control and management middleware to Windows and various flavors of Embedded Linux. Analyzed requirements of customers and proposed how to integrate our software into their products. Coordinated response to customer found defects.

World Health Organisation (WHO) / Consultant
Nov 2008 -Sep 2009, Various

IT deployment in Sierra Leone. Development of a modular IT systems specification system.

Médecins Sans Frontières (MSF) / Field Administrator and Logistician
Jun 2006 -Aug 2008, Various

Liberia (log/admin, basic healthcare), Chad (log, basic healthcare, insecure context), Congo (log/admin; meningitis emergency), Ethiopia (log; food security)

Microsoft / Software Developer
Jan 1997 - Aug 2004, Various

Numerous projects in two startups acquired by Microsoft. Large scale Solaris system administration tools for software as a service for the consumer market, and speech recognition.

Education

Harvey Mudd College / BS in Computer Science
1991 - 1996, Claremont, CA, USA

Languages Spoken

French, English

C, Go, Python

Nerd-speak, Business-speak, Funder-speak, Stakeholder-speak