Christopher Peplin

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Employment

Aug. 2022 - Present
Zipline
Remote

Software Engineer, Avionics Software Lead

I am the technical lead and manager for the Avionics software team. We build a broad set of the foundational tech powering Zipline's delivery drones including: firmware (C++), embedded Linux (Yocto), sensor integrations (Rust), IPC and logging infrastructure, networking, CI/CD, build systems and cloud service integration (Python).

Nov. 2021 - August 2022
AtoB
Remote

Software Engineer, Product & Infrastructure

On the fledgling engineering team at AtoB, I helped build out a suite of fintech products for vehicle fleet operators, and mature our engineering culture to support rapid growth. I led backend development of a new driver payroll product (Ruby), built common service deployment and monitoring infrastructure, and supported the risk engineering team's efforts to minimize fraud with ML.

Sep. 2020 - November 2021
Aurora Innovation
Remote

Senior Staff Software Engineer

Aurora acquired Uber ATG. I took the opportunity to pivot from management back to a hands-on software engineering role. With my team, we built the first iteration of a web-based remote assistance platform for Aurora's self-driving vehicles (C++, Go, WebRTC, Terraform), and were responsible for the vehicle data logging system (C++ and Python) and networking infrastructure (C++, Go, Tailscale, AWS, Terraform).

Jan. 2016 - September 2020
Uber ATG
Pittsburgh, PA

Software Engineer to Senior Engineering Manager

I began as a software engineer in Onboard Integration, building self-driving vehicle sensor drivers and the embedded Linux OS for Uber's many autonomous platforms. I grew to be the tech lead and manager for the team. Our scope included software and firmware deployment, sensor calibration, fault management, and cellular networking; my role eventually evolved into a senior manager supporting 5 teams under the umbrella of Vehicle Platforms.

April 2014 - December 2015
Stratos Card, Inc.
Ann Arbor, MI

Lead Software Engineer

A cross-functional software engineer, team lead and project manager responsible for the Stratos Card firmware, Bluetooth API, mobile apps, REST API, web frontend and manufacturing testing. This consumer electronics product aimed to replace magnetic stripe cards with a smartphone-oriented, digital alternative.

July 2011 - April 2014
Ford Motor Company
Dearborn, MI
openxcplatform.com

Software Research Scientist

Designed, implemented and released OpenXC, an open source hardware and software platform for using data from vehicles in custom applications. Evangelized open data in the automotive industry through international workshops and speaking engagements.

Education

2009 - 2011
Carnegie Mellon University
Pittsburgh, PA

M.S. in Information Networking

Distributed Systems, Large Scale Internet Services & Data Center Operations, Electric Energy Systems, Data Mining

2005 - 2009
University of Michigan
Ann Arbor, MI

B.S. in Computer Science

Concurrent & Parallel Systems, Databases, Web Applications