

Christopher Peplin

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Employment

- August 2022 - Present** *Software Engineer, Perception Platform Lead*
Zipline
Remote
My team is responsible for the embedded systems required to deploy a perception system to real hardware at scale, including sensor integration, logging and fault management.
- Nov. 2021 - August 2022** *Software Engineer, Product & Infrastructure*
AtoB
Remote
On the fledgling engineering team at AtoB, I helped build out a suite of fintech products for vehicle fleet operators and mature our engineering processes to support rapid growth. I led development of a new driver payroll product (in Ruby), built common web service deployment and monitoring infrastructure, and supported the risk engineering team's efforts to minimize fraud with machine learning.
- Sep. 2020 - November 2021** *Senior Staff Software Engineer*
Aurora Innovation
Pittsburgh, PA
At Aurora, I pivoted 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 self-driving vehicles (C++, Go, WebRTC, Terraform), and were responsible for the vehicle data logging framework and network infrastructure. Aurora acquired Uber ATG in early 2021, and I advised on many technical and organizational topics to support a successful merger.
- Jan. 2016 - September 2020** *Software Engineer to Senior Engineering Manager*
Uber ATG
Pittsburgh, PA
I began my self-driving career as a software engineer in Onboard Integration, supporting vehicle, sensor interface, and onboard OS development for ATG's many autonomous platforms. I grew into the tech lead and manager for the team, and continued to contribute as a hands-on software engineer and technical architect. Our scope included software and firmware deployment, sensor calibration, fault management, and mobile networking; my role evolved into a senior manager supporting 5 teams under the umbrella of Vehicle Platforms.
- April 2014 - December 2015** *Lead Software Engineer*
Stratos Card, Inc.
Ann Arbor, MI
A cross-functional software engineer, team lead and project manager responsible for the Stratos Card firmware, Bluetooth API, mobile apps, backend HTTP API, web frontend and manufacturing test rig for our partners in China. This consumer electronics product aimed to replace magnetic stripe cards with a smartphone-based, digital alternative.
- July 2011 - April 2014** *Software Research Scientist*
Ford Motor Company
Dearborn, MI
openxcplatform.com
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** *M.S. in Information Networking*
Carnegie Mellon University
Pittsburgh, PA
Distributed Systems, Large Scale Internet Services & Data Center Operations, Virtualization, Data Mining
- 2005 - 2009** *B.S. in Computer Science*
University of Michigan
Ann Arbor, MI
Concurrent & Parallel Systems, Databases, Web Applications