

# Christopher Peplin

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## Employment

### April 2014 - Present

Stratos Card, Inc.  
Ann Arbor, MI  
stratoscard.com

### *Lead Software Engineer*

Linking engineering, manufacturing, marketing, product development, QA and support as a cross-functional software engineer and project manager. Developing PIC18 and CC2541 firmware for the Stratos Card, including a custom Bluetooth Smart protocol. Implementing the Stratos HTTP API in Python, used for mobile and web clients. Building end-to-end security for virtually issued payment cards. Translating designs from Marketing into a functional, customer facing web app.

### July 2011 - April 2014

Ford Motor Company  
Dearborn, MI

### *Research Scientist in Vehicle Design & Infotronics*

Designed, implemented and released OpenXC, an open source hardware and software platform for interacting with vehicles from mobile devices. Served as the lead maintainer at Ford and in the open source community. Evangelized open data and open source software in the automotive industry through international workshops and speaking engagements. Facilitated developers in an OpenXC-based national app challenge.

### September 2009 - July 2011

Bueda Inc.  
Pittsburgh, PA

### *Director of Software Development*

Organized a tight-knit team of developers behind the young start-up's semantics-oriented web applications. Coordinated research & development, cloud infrastructure and deployment of Python and C++ applications on Amazon's EC2 platform.

## Education

### 2009 - 2011

Carnegie Mellon University  
Pittsburgh, PA

### *M.S. in Information Networking*

Cumulative GPA: 3.79  
Topics: Virtualization, Large Scale Internet Services & Data Center Operation, Distributed Systems, Data Mining, Electric Power Infrastructure Management

### 2005 - 2009

University of Michigan  
Ann Arbor, MI

### *B.S. in Computer Science*

Cumulative GPA: 3.53  
Topics: Concurrent & Parallel Systems, Databases, Web Applications, Artificial Intelligence

## Experience

### 2011 - Present

Open Source Maintainer  
openxcplatform.com

### *OpenXC: An Open Source Vehicle Data Platform*

Developing new features for the multi-platform vehicle interface firmware for bidirectional translation of vehicle data to developer-friendly formats. Extending the Android tools to support transmitting data to vehicles.

### 2010

Engineering & Economics  
of Power Systems  
Carnegie Mellon University

### *Threephase: A Web-based Power Industry Game*

Designed and implemented a real-time strategy game simulating operational challenges in the electric power industry; a Ruby on Rails application with JavaScript visualizations.

### **Languages**

In order of fluency.

Python, Java, C, Ruby, C++, Javascript  
Semantic HTML, CSS, SQL

### **Frameworks and Tools**

Arduino, PIC18, PIC32, LPC1768, CAN, Bluetooth 2/3 and 4.  
Flask, Jekyll, SQLAlchemy, Django, Tornado, Rails