

# Chris Sammis

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## WORK EXPERIENCE

### Software Engineer, Rhythm Engineering — Lenexa, KS

FEBRUARY 2016 - MARCH 2017

Designed, developed, and supported integrations between vehicle detection hardware and Rhythm Engineering's traffic flow optimization platform.

- Developed a cross-platform video processing application using C++ and OpenCV to detect vehicles at intersections monitored by FLIR thermal cameras
- Supported video processing applications for thermal and visible light cameras beginning with initial field deployment through ongoing maintenance
- Designed and implemented prototypes to integrate vehicle detection input from third-party panomorph cameras and radar with Rhythm Engineering's existing products
- Integrated Linux-based C++ driver code for a newly designed hardware traffic controller with a Windows C# traffic simulation tool to provide whole-system testability of Rhythm Engineering's traffic management solution

### Senior Software Architect & Development Manager, Lexmark International / Perceptive Software — Lenexa, KS

MAY 2012 - FEBRUARY 2016

Technical lead of four development teams which focused on business process management, relational database search, data retention, and electronic form technologies used by Lexmark's enterprise content management platform.

- Provided technical guidance and high-level architecture design for development of large scale, cross-functional features.
- Communicated with and provided feedback to product management, professional services, and support teams to balance specific customer needs with production of a platform that supported many industries, workflows, and user roles
- Defined technical aspects of customer-facing features and provided estimates on the scope and level of effort for those requests
- Delivered presentations and answered technical questions for customers, partners, peers, and stakeholders at the annual Perceptive Software user conference on the subject of optimizing workflow design and administration

## TECHNICAL SKILLS AND TOOLS

C  
C++ (MFC, STL)  
Java (SWT, Tomcat servlets)  
C# (Winforms, WPF)  
OpenCV  
Javascript  
Python 3  
MS SQL Server 2008 – 2012  
Oracle 10g, 11g, and 12c  
Source control systems (TFS, Git)  
gcc and clang on Linux and OS X  
Visual Studio 2005 – 2013  
Agile software development methodologies (Scrum, Kanban)  
Object-oriented design principles

## EDUCATION

B.S., Computer Science  
Iowa State University, Ames, IA  
2005

- Attended ISO C++ Standards Committee meetings as a delegate for Lexmark International, which participated as a voting member of the committee from 2014 to 2016
- Mentored and conducted performance reviews for fifteen software engineers comprising approximately one third of the enterprise content management platform development team
- Conducted hiring interviews and coding test evaluations for software engineer full-time and internship candidates

**Software Architect,  
Lexmark International / Perceptive Software — Shawnee, KS**

JANUARY 2010 - APRIL 2012

Led a team focused on design and implementation of the relational database search and full text search capabilities of Lexmark's enterprise content management platform and related applications.

- Designed relational database schema and evaluated query performance on Microsoft SQL Server 2008 and Oracle 11g / 12c
- Led a cross-team development project to introduce hierarchical content organization to the product, resulting in a provisional US Patent application
- Reviewed code, tests, and user-facing documentation produced by the team
- Coordinated user story breakdown and task assignment for the team
- Mentored and conducted performance reviews for 3-4 software engineers

**Software Engineer, Perceptive Software — Shawnee, KS**

JUNE 2008 - JANUARY 2010

Worked on a team which designed and implemented workflow and search features for a document imaging and enterprise content control suite developed by Perceptive Software.

- Developed MFC client applications using C++ on Windows XP and Windows Vista
- Developed server applications using C++ on Windows, Linux, AIX, and Solaris
- Developed database queries using Microsoft SQL Server 2005 and Oracle 10g / 11g
- Earned "Employee of the Month" in June 2009 for updating and optimizing a domain-specific language used to evaluate user-entered search criteria
- Participated in creation of UX guidelines and localization best practices for MFC-based application development

**Software Engineer, Cerner Corporation — Kansas City, MO**

JULY 2006 - JUNE 2008

Implemented project requirements and defect corrections for teams focused on patient registration and revenue-cycle management for Cerner Millennium.

- Developed client applications in Visual Basic 6 and CCL, a custom database query and reporting language
- Developed client applications in Java using SWT and OSGI plugin architecture
- Coordinated with development and quality assurance engineering resources based in India

**Software Developer / Analyst, Iowa State University — Ames, IA**

MAY 2005 - JUNE 2006

Designed and implemented software with the Center for Survey Statistics and Methodology to support the USDA's National Resource Inventory survey.

- Developed data servers using C++ , Berkeley DB, and ZeroC ICE on Red Hat Linux