

# Kristie D'Ambrosio-Correll

www.dambrosio-correll.info

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## EDUCATION

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### Massachusetts Institute of Technology

Undergraduate Degree: Bachelor of Science Date: June 2010  
Major: Computer Engineering GPA: 4.3 (5.0 scale)  
Minor: Political Science

Graduate Degree: Master of Engineering Date: June 2011  
Major: Computer Science and Electrical Engineering GPA: 4.6 (5.0 scale)  
Concentration: Artificial Intelligence

#### Related Course Work:

Calculus I- III, Differential Equations, Computer Structures, Principles of Software Development, Computer Systems Engineering, Algorithm Design, User Interface Design, Artificial Intelligence, Algorithmic Game Theory, Human Intelligence Enterprise, Cognitive Robotics, Number Theory

## WORK EXPERIENCE

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### Lead Engineer, SRE Team, Sailthru January 2015 – present

The SRE team is a devops organization focused on maintaining stability and uptime for Sailthru's globally-used platform.

- Responsible for managing a team of 4 senior and principal engineers.
- Responsible for managing and correcting system issues and incidents 24/7
- Responsible for identifying areas of the application that need rearchitecting, assisting the CTO in creating component designs and managing the implementation of the new component.
- Responsible for interfacing with the Operations and Database team, Support staff and clients.

### Principal Engineer, Architecture Team, Sailthru October 2014 – January 2015

The architecture team reports directly to the CTO, working on impactful projects for the future of Sailthru's system and products.

- Responsible for design, development and testing of new features and prototypes.
- Responsible for interfacing with developers and managing large-scale innovation projects

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- Responsible for handling urgent client-facing concerns as a proxy for the CTO

## **Software Developer, Sailthru**

**June 2013 – October 2014**

Member of the API team working on projects that included building new API functionality, supporting mobile applications, and building an onsite, real-time data dashboard for clients.

- Responsible for development and maintenance of a RESTful API - Agile development environment experience
- Responsible for design, development and testing of applications
- Mobile system experience

## **Systems Engineer, Northrop Grumman Corporation**

**May 2010 – June 2013**

Member of the R&D department

- Systems and software architecture design for platform software upgrades.
- Requirements development and functional allocations for platform software upgrades. - Drafting of Software Development Plan for new contract proposal.
- Software development of jammer management system.
- Project lead on a research effort to investigate the application of tunable metamaterials. - Modeling and simulation efforts for antenna design.

## **Intern, Northrop Grumman Corporation**

**Summer 2007 – 2010**

- Algorithm development for new compressive sensing technique (see pending patent).
- Algorithm development for modeling and simulation numerical analysis method on GPUs.
- Gained knowledge of graphical computation methods for advanced electromagnetics.

## **Consultant, Hi-Tech Associates Inc.**

**January – February 2008**

- Collaborated with universities about implementing compressive sensing theory
- Wrote articles for local publications about parallel computing and compressive sensing

## **LEADERSHIP EXPERIENCE**

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**Sailthru, SRE Team Lead:** Lead a team of 4 senior and principal engineers responsible for the maintenance and health of a globally-used email marketing platform. Design, implement and manage team projects to re-architect malfunctioning system components. Conduct weekly meetings and performance reviews with all direct reports.

**Sailthru, System Project Manage:** Planned, managed and implemented the development of a large infrastructure project for the primary component of the Sailthru architecture. Designed and carried out a performance and load test plan. Managed and executed a migration plan for seamless adoption of the new system.

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**NGC, Connect1NG Lead:** Founder and first president of the Bethpage chapter; Connect1NG is a workplace initiative to attract, retain, and meet the needs of current employees under 40, planning approximately 8-12 events annually.

**NGC, Innovation Challenge Project Lead:** Led project team for Northrop Grumman's 2011 innovation challenge, employee-proposed R&D efforts for state of the art technology. Chosen as one of 5 teams to receive funding from over 200 proposal submissions.

## TECHNICAL SKILLS

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Languages: PHP, Java, Python, HTML, CSS, MATLAB, C++, Scheme, Lisp

Development Tools: Eclipse, Netbeans, Git, Junit, PHPUnit

Methodologies: Scrum, Test Driven Development

Database Platforms: MongoDB, MySQL

OS: Windows, Linux, UNIX, Mac OS

## PUBLICATIONS

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“MoM Software for GPU Hardware”, 2011 IEEE Journal; “Fiber Optics for Harsh Environments”, 2011 IEEE Journal; “Integration of Compressive Sensing Into First Principle Electromagnetic Design, Modeling & Simulation”, 2010 IEEE Journal; “Parallel Computation Methods for Enhanced MoM and MLFMM Performance”, 2009 IEEE Journal.

## PATENTS AND AWARDS

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“Discrete Cosine Transform of Electromagnetic Simulations for Complex Systems” (Patent Pending), EE Times ACE Student of the Year, Boeing Engineering Student of the Year Nominee, NCAA Division III National Team Alternate, Northrop Grumman Corp. Engineering Fellowship and Scholarship, Girl Scout Gold Award