

Molly Darish Karcher

4484 Lerner Hall, 2920 Broadway | New York, New York 10027

(516) 521-9455 | mdk2133@columbia.edu | www.columbia.edu/~mdk2133

EDUCATION

Columbia University, Fu Foundation School of Engineering and Applied Science New York, NY
Bachelor of Science in Computer Engineering Expected May 2013
GPA: 3.5401

Relevant coursework

Circuit Analysis

Signals & Systems

Fundamentals of Computer Systems

Data Structures & Algorithms

Digital Systems Lab

Electronic Circuits

WORK EXPERIENCE

Columbia University Department of Computer Science New York, NY
Teaching Assistant, Introduction to Computer Science & Programming in Java Fall 2011 - present

- Hold weekly office hours and grade weekly theory and programming assignments.
- Topics covered include: data structures, algorithm analysis, networks, architecture, and models of computation.

RWTH Aachen University Aachen, Germany
Developer, Institute for Communication Technologies and Embedded Systems May - August 2011

- Developed an application tracing plug-in based on the Eclipse framework for MAPS project (MPSoC Application Programming Studio).
- Optimized code framework to achieve running time of 0.02% of the original.

Zerve, Inc New York, NY
Operations Intern April 2010 - June 2011

- Researched potential business opportunities throughout the country.
- Drafted company guidelines for listing and organizing information within the local database.

LEADERSHIP EXPERIENCE

Society of Women Engineers, Columbia University Section New York, NY
Regional Conference Board Member Fall 2010 - present

- Work with fellow board members to plan, organize, and advertise for the 2012 SWE Region E Conference to be held at Columbia University in the spring.

Columbia University Emerging Scholars Program New York, NY
Workshop Assistant Fall 2011

- Facilitate discussions in research-based introductory seminars for first year undergraduate students in Computer Science.

Brooklyn School of Collaborative Studies New York, NY
Columbia University Gateway Program Spring 2010

- Designed a proposal for new playground equipment for handicapped children.
- As secondary facilitator, managed deadlines, delegated work, led client meetings and presentations.

SKILLS

Programming: Java, C, C++, Perl, LISP, HTML, CSS, XML, Unix/Linux, Eclipse

Lab Equipment: Oscilloscope, Function Generator, Digital Multimeter, Power Supply, Soldering Iron, Arduino