

## William R. Orr

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CONTACT INFORMATION      1188 Gatestone Circle      *Phone:* (585) 545-8593  
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EDUCATION      **University of Rochester**, Rochester, New York  
Ph.D. Candidate, Mathematics  
M.S., Mathematics, Earned September 2006, Awarded May 2007

**Rochester Institute of Technology**, Rochester, New York  
B.S., Computational Mathematics, May 2005

PROJECTS      **Plasma Plotter** An advanced plotting program capable of plotting time-based Functional, Parametric, Implicit, and Vector plots in 2 and 3 dimensions. It uses OpenGL as a graphics backend to allow for cross platform compatibility. These plots can be rotated, zoomed, and scrolled in real time.

**Todo List Organizer** Created a to-do list program to help keep track of my goals and responsibilities. It allows nested to-do items, scheduling, notes, procrastination meter, and other features.

**Calculator Programming** Built a driver for a PS/2 style keyboard and modified the keyboard to attach to the calculators link port. Also built several other useful programs.

PROFESSIONAL EXPERIENCE      **University of Rochester, Department of Mathematics**, Rochester, New York  
*Teaching Assistant*      **August, 2005 - Present**  
Taught 3 weekly recitation sections in the introductory calculus sequences where material is reviewed. Held weekly office hours for extra help sessions. Sat in tutor lab for students in any class to receive extra mathematics help.

**L-3 Communications Linkabit Division**, Victor, New York  
*Summer Coop*      **Summer, 2006**  
Worked on a variety of mathematical, statistical, and programming problems related to radio communication including coding, privacy, ARQ, and queueing. Built models to predict success rates of connections. Wrote computer code in C, C++, and Mathematica. Performed significant optimizations in algorithms.

**Gates Chili High School**, Rochester, New York  
*Long Term Substitute*      **July, 2004 - August, 2005**  
Taught AP and local-level Computer Science courses in the language of JAVA for a teacher on sick leave. Created lesson plans and assignments, and graded assignments.

**The Pike Company**, Rochester, New York  
*Assistant Network Administrator*      **Summer, 2001**  
Aided in administering a network of mostly Windows Machines.

COMPUTER SKILLS      • Languages: C/C++, Assembly(x86,PIC,z80,m68k), Java, PHP, MySQL, HTTP/CSS, Perl  
• Libraries: .Net, OpenGL, Windows API, GMP, and others  
• Software: Mathematica,  $\text{\LaTeX}$ , Microsoft Office, Windows, Unix/Linux, MacOSX