

# Matthew Klingensmith

**Major:** *Computer Science*

**Minor:** *Robotics*

Carnegie Mellon 2012

**Address:**

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**Citizenship:** Yes

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## Education:

- **Carnegie Mellon University** Pittsburgh, PA, 2008-2012 (intended)  
Intend Degree: Bachelor of Science in Computer Science with a minor in robotics.  
Overall QPA: 3.07/4.00
- **Relevant Coursework:** Great Theoretical Ideas of Computer Science, Fundamental Data Structures and Algorithms, Matrix Algebra, Calculus in 3D , Essential C and UNIX , Mobile Robot Programming , Intro to Robotics (current), Computer Systems (current), Computer Vision (current).
- **Grapevine High School** Grapevine, TX, 2004-2008  
GPA at graduation: 3.88/4.00  
Rank at graduation: 33/496  
**SAT:** 760 Reading, 690 Math, 750 Writing.  
**SAT II:** 690 Math I, 800 Math II, 780 US history, 760 Physics.  
**ACT:** 33  
**National Merit Finalist. Member of Mensa.**

## Skills:

- **Programming Languages:** C, C++ C#, F#, .NET, Java, Python, Perl, SML, MATLAB, HTML, XML, Shell
- **Software:** Microsoft, Apple, and Linux operating systems, Visual Studio, Eclipse, Microsoft/Open Office , Wolfram Mathematica, MATLAB, Adobe Photoshop, Adobe Dreamweaver, Mercurial, SVN, Blender, 3DSMax
- **Hardware :** Extensive experience with robotics hardware. Experience in soldering, simple electrical engineering, construction and maintenance of PC hardware. Some experience in maintenance of web servers.
- **Misc:** Can play guitar, piano, and drums. Extensive experience in recording music and video. Avid writer of original music, novels and short stories. Makes video games, robots and technical videos as a hobbies.

## Employment:

- **Wired Up Beads - General Assistant** Summer 2009 Southlake, TX  
Maintained website, developed inventory system for small business operation, took in shipments, packed and shipped outgoing shipments. Helped transfer from paper documentation system to electronic one.
- **Grapevine Welcome Center - Volunteer** Summer 2008 Grapevine, TX  
Entered lodging information into a database. Cleaned rail cars and greeted customers.
- **NASA Center of Information, Chugarch, Inc.—Document Technician** Summer 2007 Hanover, MD  
Conducted statistical analysis of research documents, and prepared important documents to be scanned into the server database. Also Assisted in server maintenance and destruction of unwanted documents.

## Projects/Activities:

- **Project Leader for "MoonWalk"** Game Creation Society (current) 2010:  
Developing a C# (XNA) computer game whose primary mechanic is orbital mechanics physics puzzles.
- **Nomad Scout Robot:** Mobile Robot Programming -2009  
Programmed a Nomad Scout robot to path-find through arbitrary mazes and compete against other robots.
- **Technical Director "BeeStruction":** Game Creation Society - 2009  
Developed a C# (XNA) computer game in which the player controls a massive swarm of bees.
- **Project Leader for "Project: Confidential",** Game Creation Society- 2009  
Developed a Java computer game which centered on defeating enormous 1950's B-movie monsters. Won the annual Game Creation Society Gold Award.
- **Project Leader for "RocketPod,"** Game Creation Society- 2008  
Project leader for a Java video game which focused on mining asteroids in space.
- **Team Leader for Mock Mission To Mars-** NASA Aerospace Scholars- 2007  
Led the Red (engineering) Team, in which we planned a mock mission to mars which was assessed on feasibility and price in competition with other teams. Selected by the state as part of the annual Aerospace Scholars program.