

BLAKE ELIAS

New York, NY
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EDUCATION

Stuyvesant High School
June 2012 (expected)
GPA: 96.5 / 100

New York University College Preview
Fall 2011
Basic Algorithms (CS 310)

ACTIVITIES & PROJECTS

Zero Robotics on ISS (September 2010 - Present)
Founder and president / Stuyvesant HS Team
Led team of 20 students in nationwide competition to program SPHERES autonomous satellites on the International Space Station. Focus on formation flight, spacecraft docking, and autonomous collaboration. Won 5th place in 2010 competition.

FIRST Robotics (January 2010 - Present)
Director of Strategy; Software Engineer
Designed and developed mobile robot software with control systems team, both human-controlled and autonomous. Won 1st place at New York regional (2010), competed in 2010 and 2011 FIRST World Championships.

Computer Graphics Engine (Spring 2011)
Developed a 3D computer graphics engine in C. Implemented line drawing, curve generation, animation, lighting, shading and motion description language.

Moody's Mega Math Challenge (March 2011)
Competed in 14-hour applied mathematics competition with five-person high school team. Studied and modeled the water crisis in the Colorado River Basin.

New York City Math Fair (Spring 2010)
Presented a paper on geometric inversion which won a silver medal and was published in Stuyvesant's *Math Survey* journal.

Stuyvesant Debate Team (Fall 2008 - Spring 2009)
Lincoln-Douglas Debate
Debated a variety of philosophical and political topics. Competed in New York State Championships.

Stuyvesant High School Math Team (2008 - 2010)
Competed in AMC, a national problem-solving contest.

WORK EXPERIENCE

Sphere Labs, Inc (Summer 2011 - Present)
Co-founder and CTO
Helped conceive initial product idea, led development team, and researched recommendation algorithms for a mobile news reader application.

Morgan Stanley (Summer 2011)
Enterprise Computing Intern
Developed an evolutionary algorithm to perform personality-matching. Investigated how the firm could automatically process large volumes of system data using Apache Hadoop.

International Center for Integrative Systems (Summer 2010)
Intern for Dr. V. A. Shiva Ayyadurai, MIT Faculty Lecturer
Contributed to an application to automate health analysis based on a user's photograph. Developed data model and parsed web data for use in the recommendation system.

Brainlink International (Summer 2009)
Software Development Intern
Launched a website with several new IT products and services and the company's first online payment system. Developed web directories for category- and location-based advertising.

MakeUseOf (Summer 2008)
Blogger
Wrote tutorials and product reviews for technical blog. Site had 30,000 subscribers at time of authorship.

SOFTlab (Summer 2007)
Digital design intern
Explored computer graphics, 3D modeling and animation at a multi-disciplinary digital design studio, mainly with Autodesk Maya.

TECHNICAL SKILLS

Programming: C, Scheme, Python, Java, LaTeX, XHTML, CSS, JavaScript (AJAX), PHP, SQL, Bash

Version control software: Git, Subversion, Mercurial