David Z. Ye

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Education

- **Massachusetts Institute of Technology (MIT)**   **Cambridge, MA**
  Candidate for B.S. in Electrical Engineering and Computer Science, Mathematics   *June 2015 (expected)*
  - **Relevant coursework** - 6.006: Introduction to Algorithms, 6.005: Software Construction; 6.034: Artificial Intelligence; 6.01: Introduction to EECS I; 21W.789: Communicating through Mobile Technology (Android project class); 18.700: Linear Algebra, 6.042: Mathematics for Computer Science
  - **Overall GPA: 5.0/5.0**

- **Little Rock Central High School**   **Little Rock, AR**
  Valedictorian   *June 2011*
  - Graduated Cum Laude with 4.63/4.0 GPA

Experience

- **Personal Robots Group (Prof. Breazeal, MIT Media Lab)**   **Cambridge, MA**
  Undergraduate Researcher   *Current*
  - Developing faster homing algorithm for humanoid MDS robots, Nexi and Maddox
  - Assisted with analysis of human-robot interaction in simulated search-and-rescue operations

- **MIT Solar Electric Vehicle Team (SEVT)**   **Cambridge, MA**
  Electrical Engineer   *Current*
  - **Aiding in design and implementation of car's electrical system, involving programming microcontrollers, assembling the battery pack, designing PCBs, etc.**
  - Part of race crew for 1650+ mile American Solar Challenge (ASC) race 2012.
  - Performing analysis and optimization of vehicle efficiency

- **Neroh Interactive**   **Cambridge, MA**
  Web Developer   *January 2012-July 2012*
  - Independently created a web interface using PHP and HTML for easy Stix implementation
  - Used Ruby on Rails to implement sharepage for Stix, a disruptive social mobile app involving collaborative photo editing.

- **Research Science Institute, MIT**   **Cambridge, MA**
  Student Researcher, Department of Defense Scholar   *Jun.-Aug. 2011*
  - Performed mathematical research under Prof. David Jerison
  - Presented findings in "Generalization of Coin-Weighting Problem" to mentors, professors, and fellow students
  - **Paper selected as one of 4 U.S. finalists in International Yau High School Math Awards**

- **"An Investigation into the Linear Twin Towers of Hanoi"**   **Little Rock, AR**
  Independent Researcher   *Sep.-Jan. 2009*
  - Conducted research on a variant of the Tower of Hanoi problem
  - **Won 1st overall in Arkansas State Science and Engineering Fair**
  - **Qualified for International Science and Engineering Fair 2009 in Reno, Nevada**

Activities/Leadership

- **Mu Alpha Theta**   **Little Rock, AR**
  President   *2008-2011*
  - Placed in various regional and national math competitions, such as Mandelbrot and American Math Contests (AMCs)
  - **Two-time qualifier for United States American Math Olympiads (USAMO)**

- **Community Service**   **Little Rock, AR/Cambridge, MA**
  Volunteer   *2008-Current*

- Volunteered as a physics teacher for MIT Educational Studies Program (ESP)
- Tutored Little Rock inner city students K-9 as part of the InnerCity FutureNet and Minorities in AP programs
- Fundraised for charity Frisbee tournament for research on amyotrophic lateral sclerosis (ALS)

Skills

Programming: Experience in Java, Python, C++, MATLAB, and PHP
Markup Languages: HTML, CSS, and LaTeX
Foreign Languages: Fluent in Cantonese Chinese; Proficient in Spanish and Mandarin Chinese