Brandon Le

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Education		
	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	**Cambridge, MA**

GPA: 4.40/5.00

Candidate for Bachelors of Science in Aerospace Engineering   June 2015
- *Related Coursework*: Classical Mechanics, Electricity and Magnetism, Solid-State Chemistry, Differential Equations, Computer and Engineering Problem Solving, Statistics and Probability, Numerical Simulations (G)

EL CAMINO HIGH SCHOOL   **Oceanside, CA**

GPA: 4.44/5.00   June 2011

Experience

DYNAMO MICROPOWER, *Intern*   **Boston, MA**
- Designed compressor and turbine blade geometries to maximize efficiency of portable   June-Aug. 2012 turbine generator
- Performed computational fluid dynamics analysis for compressor and turbine blades

MIT SPACE SYSTEMS LABORATORY, *Intern*   **Cambridge, MA**
- Designed, machined, and assembled new air-carriage test stands for satellite docking   Oct. 2011-May 2012
- Tested autonomous satellite docking and close-proximity interactions by programming and altering hardware to improve guidance

NASA GODDARD SPACE FLIGHT CENTER, *Intern*   **Greenbelt, MD**
- Designed and modeled the High Inertial Loads Mount (HILM), created to attach instruments   Jan-Feb. 2012 to aircraft for flight testing
- Analyzed the structural integrity of the HILM and presented the design concept to engineers for fabrication

NASA AMES RESEARCH CENTER, *Intern*   **Moffett Field, CA**
- Worked with engineers to locate malfunctioning UH-60 Helicopter sensors by analyzing   June-Aug. 2011 transducer outputs for pressure anomalies
- Verified new computational fluid dynamics program performance by cross-referencing body-pressure outputs with wind tunnel data
- Constructed and analyzed grids for design-concept commercial large-civil-tiltrotor interaction with airport terminal in order to determine optimal helipad placement

NASA DRYDEN FLIGHT RESEARCH CENTER, *Intern*   **Edwards, CA**
- Conducted flight testing on Dryden's Remotely Operated Integrated Drone (DROID)   June-Aug. 2010 on lake bed and collected performance data such as efficiency, thrust, and drag
- Analyzed flight data for aerodynamic characteristics and baselined drone for future use as experimental aircraft

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Leadership and Activities

EL CAMINO ENGINEERING CLUB, *Founder, President*   Aug-June 2009-2011
- Created Engineering Club to apply school subjects to projects
- Organized 20+ students' visits to local college engineering labs by contacting lab director and coordinating transportation
- Built model rocket and contacted certified launchsite for launch event

INTERACT CLUB (High school club sponsored by Rotary for community service)   Aug-June 2009-2011
Treasurer, Leadership Committee
- Managed funds from fundraisers by allocating donations to charities, water projects, etc.
- Coordinated school-wide food and clothes drives by advertising event, distributing donation boxes, and sorting items for pick-up
- Organized community projects; river/beach cleanup, soup kitchen help, community beautification, etc.

Honors and Awards

NATIONAL AP SCHOLAR, AP SCHOLAR WITH DISTINCTION	**2011**
JACK CASSAN FLIGHT SCHOLARSHIP, Awarded to assist obtain a private pilot's license	**2011**
ROTARY YOUTH LEADERSHIP AWARD, Award for community service and leadership	**2010**
SIMON SCHOLARS SCHOLARSHIP, Awarded based on financial need	**2009**

Skills

COMPUTER: Windows, Java, Microsoft Office, Adobe Photoshop, Solidworks, AutoCAD, ANSYS
LANGUAGES: Basic familiarity with French and Vietnamese