

JASON ALEXANDER MARTINEZ

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OBJECTIVE: I seek to work in a mechanical design and/or research and development role. I am also interested in socially impactful engineering. Future plans may include graduate school during employment.

EDUCATION: **Massachusetts Institute of Technology** Cambridge, MA
Candidate for Bachelor of Science in Mechanical Engineering GPA: 4.0/5.0 Sept 02 - June 06
Relevant courses: Mechanics and Materials I, II, Mechanical Engineering Tools, Measurement and Instrumentation, Modeling Dynamics and Control I, II, Thermal Fluids Engineering I, II, Design and Manufacturing I, II, The Product Engineering Process, Analysis and Design of Feedback Control Systems, Internal Combustion Engines, Introductory Electronics, Project Laboratory.

University of California, Riverside Riverside, CA
GPA: 4.0/4.0 Jan 02 - June 02
Relevant courses: Computer Science for Engineering, Properties of Engineering Materials

EXPERIENCE: **Texas Instruments** Attleboro, MA
Design Engineer Jun 05 – Dec 05

- Design and test automotive occupant weight sensors for performance validation and cost reduction.
- Design/optimize fixtures for measuring dimensional tolerance of sensors during manufacturing.

Sugar Cane Charcoal Kiln for Haiti Cambridge, MA
Undergraduate Researcher Oct 05 - present

- Design and testing of a carbonizing kiln for sugar cane charcoal production in Haiti.

Honda R&D Americas, Inc. Raymond, OH
Chassis Strength and Reliability Summer 04

- Designed and constructed a new test machine for wheel hub durability under cyclic moment loading.
- Static strength testing and countermeasure design for prototype chassis components and assemblies.

MIT Sloan Automotive Lab Cambridge, MA
Undergraduate Researcher Oct 03 - Dec 04

- Designed and constructed spark ignition engine test cell with thermal control systems.
- Studied the effects varied dual pulse fuel injection to reduce cold startup hydrocarbon emissions.

Pratt & Whitney, Production Test Facility Middletown, CT
Facilities Engineering and Project Management Summer 03

- Created operating procedures for a new million gallon fuel tank and supply system for the facility.

Department of Defense, Naval Surface Warfare Center Corona, CA
Engineering Assistant June 01 - Aug 02

- Assisted engineers in creating electronic submarine manuals and service technician testing materials

CWP Surfaces & Design, Inc San Bernardino, CA
CAD Programmer/Designer June 98 - June 99

- Counter top and surface design and blueprinting in AutoCAD and other CAD programs.

LEADERSHIP: **Society of Mexican American Engineers & Scientists (MAES) – President, Corporate Liaison**

- Advertising for OME sponsored career fair, coordination of MIT Science Extravaganza

Beta Theta Pi – President, House Manager, Community Service Chairman

- Facilitate communication between students, alumni board and university reps. Local community rep.

SKILLS: Catia, Solidworks, Mastercam, Matlab, Visual C++, Windows OS (Word, Excel, PowerPoint)

ACTIVITIES: Motorcycle building, Carpentry, Masonry, Crew, Sailing, Families Accessing Computer Technology Tutor, National Braille Press Volunteer, Habitat for Humanity