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Education:	<p>MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Cambridge, MA S.M. in Mechanical Engineering, expected graduation: June 2010</p> <ul style="list-style-type: none">• GPA: 4.5• Relevant Coursework: <i>Precision Machine Design, Advanced System Dynamics and Controls, Intro. to Electric Power Systems</i> <p>S.B. in Mechanical Engineering, 2008</p> <ul style="list-style-type: none">• GPA: 4.9• Relevant Coursework: <i>Design and Manufacturing, Product Engineering Processes, Analysis and Design of Feedback Control Systems</i>
Experience:	<p>ROBUST RESEARCH GROUP, MIT Research and Teaching Assistant, September 2008 – present</p> <ul style="list-style-type: none">• Advisor: Prof. Daniel Frey, danfrey@mit.edu• Research in solar photovoltaic pumping systems and instrumentation.• Teaching assistant for <i>Design and Manufacturing I</i>. <p>THE EDGERTON CENTER, MIT Outreach Instructor, September 2006 – Present</p> <ul style="list-style-type: none">• Lead mentor for FIRST Robotics Team #97.• Coordinator of the Edgerton Center Summer Engineering Workshop, developed advanced engineering projects for high school students.• Projects include: self-balancing scooter, electric go-kart with novel regenerative braking system. <p>PRECISION ENGINEERING RESEARCH GROUP, MIT Undergraduate Research Assistant (UROP), March 2006 – June 2008</p> <ul style="list-style-type: none">• Advisor: Prof. Alexander H. Slocum, slocum@mit.edu• Research and S.B. thesis on wireless data acquisition and control for robotics and experimental systems.
Achievements:	<ul style="list-style-type: none">• Best Student Paper on Ecological Vehicles, EVER Monaco 2009• William L. Stewart, Jr. Award for outstanding contributions to extracurricular activities. (May 2008)• 4th Place in <i>2.007: Design and Manufacturing I</i> final contest. (Spring 2006)
Skills:	<ul style="list-style-type: none">• Mechanical design, CAD (SolidWorks), CAM (Mastercam, OMAX).• System-level simulation in MATLAB, Simulink.• Control system design, analysis, and tuning.• Circuit design, power electronics design, and printed circuit board layout.• Programming (C, Visual Basic) and embedded processor development.