

# ANDREW T. MARECKI

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## EDUCATION

**Massachusetts Institute of Technology**, Cambridge, MA Expected May 2010  
BS Mechanical Engineering  
**Wamogo Regional High School**, Litchfield, CT – Valedictorian, GPA 4.15/4.3 June 2006

## RELEVANT COURSEWORK

Single Variable Calculus –18.01 Fall 2006  
Physics I –8.01 Fall 2006  
Introduction to Solid State Chemistry –3.091 Fall 2006  
Multivariable Calculus –18.02 Spring 2007  
Physics II –8.02 Spring 2007  
Structure and Interpretation of Computer Programs –6.001 Spring 2007  
Computers and Engineering Problem Solving –1.00 Fall 2007  
Differential Equations –18.03 Fall 2007  
Mechanics and Materials I –2.001 Fall 2007  
Mechanical Engineering Tools –2.670 January 2008  
Mechanics and Materials II –2.002 Spring 2008  
Dynamics and Control I –2.003 Spring 2008  
Design and Manufacturing I –2.007 Spring 2008  
Dynamics and Control II –2.004 Fall 2008  
Design and Manufacturing II –2.008 Fall 2008  
Thermal Fluids Engineering I –2.005 Fall 2008

## RESEARCH EXPERIENCE

*MIT Media Lab –Affective Computing*— Undergraduate Researcher June 2007 - May 2008

- Worked with face-tracking software to measure one's affect to help people with autism recognize emotions.
- Helped to begin developing an 'eyejacking' system to record a person's visual field to share what he or she sees—can also be used for situated learning for individuals on the autism spectrum.
- Tested wireless, wearable biosensors which measure skin conductance, heart rate, and movement.

*MIT Media Lab –Biomechatronics Group*— Undergraduate Researcher June 2008 - Jan 2009

- Worked with other undergraduate researchers and graduate students in designing, manufacturing, and testing robotic prosthetics and exoskeletons
- Applied the fundamentals of the mechanical design process from planning to final assembly to create robust prototypes

*MIT Design and Manufacturing I Competition*— Student/Competitor Spring 2008

- Each student was challenged to design and create their own robot to compete on the contest table
- Details of my design documented at <http://web.mit.edu/amarecki/www>

*MIT Autonomous Robot Design Competition*—Student/Competitor

January 2009

- Achieved first place in the competition
- Contest involved designing, building, and programming an autonomous lego robot to compete on the contest table (<http://web.mit.edu/6.270/www>)
- Details of my team's design documented at <http://web.mit.edu/kpyapsir/www>

### **COMPUTER SKILLS**

- Proficient in Solid Works, Computer Aided Design '99 (CAD 99), Word, Excel, PowerPoint.
- Basic knowledge of Java, Matlab, Scheme.

### **HONORS**

National Honor Society

2005-2006

Eagle Scout

July 2005

Rensselaer Medal for Excellence in Mathematics and Science

May 2005

Kodak Young Leaders Award

May 2005