

# Jacqueline Sly

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## **EDUCATION**

### **Massachusetts Institute of Technology**

Expected Graduation Date: 2014

Anticipated Major: Mechanical and Ocean Engineering, Physics

### **Woodbridge High School**

GPA: 4.3/4.0

Graduation Date: 2010

Graduated with Highest Honors

## **EXTRACURRICULARS**

### **MIT Marine Robotics Team**

Current Project - Small-Scale Underwater Robotics Competition

Upcoming Project - Chevron Autonomous Underwater Glider

### **Sigma Kappa Sorority, Theta Lambda Chapter**

Chapter Historian and Class of 2014 Representative

## **WORK EXPERIENCE**

### **Massachusetts Institute of Technology – Marine Robotics Laboratory**

Feb 2011–Present

Position: Research Assistant (UROP)

### **Massachusetts Institute of Technology – Physics Department**

Feb 2011 – Present

Position: Student Assistant

### **Jet Propulsion Lab – Electrical Propulsion/Advanced Propulsion Group**

June - Aug 2010

Position: Summer Intern

- Designed/constructed a power supply array to power the modulator control unit of a Hall thruster
- Conducted plume density experiments with Ion and Hall thrusters
- Created MatLab models to handle data and display ion plume characteristics

### **Jet Propulsion Lab – Procurement Quality Assurance Group**

June - Aug 2009

Position: Summer Intern

- Designed Cold Fusion Web Applications to streamline p-card/quality clause submission process
- Designed CAD drawings to accompany quality requirements

## **INDEPENDENT RESEARCH & AWARDS**

### *Study of Biomechanics of Snake Locomotion using Robotic Snakes*

- Most Innovative Biological Project, presented by the School of Biological Sciences - University of California, Irvine
- Finalist and Presenter, National Junior Science and Humanities Symposium - Engineering Category

### *Study of Biomechanics of Fish Locomotion using Robotic Fish*

- Lon Isenberg Memorial Award for Exceptional Creativity and Scientific Insight in an Engineering Project
- The American Institute of Aeronautics and Astronautics' Best Project Illustrating the Advancement of Aeronautics

## **HONORS**

Recipient of the Society of Women Engineer's Honeywell Scholarship

Recipient of the California Masonic Foundation Scholarship

## **SPECIAL SKILLS**

Strong working and programming within MatLab, familiar programming with LabVIEW

Strong skill prototyping and designing within SolidWorks and OMAX

Experienced working with typical metal shop and machining tools

Experienced presenting data to technical and general audiences

Extremely familiar with HTML/CSS, ColdFusion, and ActionScript (Adobe Flash)

Citizenship Status: US Citizen