

# THOMAS ROMANO

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## EDUCATION

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### **Duke University**

*Class of 2017*

Majors in Electrical & Computer Engineering, Computer Science  
Dean's List with Distinction: Fall 2013, Spring 2014  
Overall GPA: 3.962

### **Fairfield Ludlowe High School**

*Class of 2013*

Valedictorian  
Overall GPA: 4.5934

## EXPERIENCES

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### **Duke Center for Metamaterials and Integrated Plasmonics**

Summer 2014

*Research Assistant, Programmer*

*Durham, NC*

- Research metamaterial apertures and compressive imaging for use in security scanners under Professor David Smith.
- Designed and implemented MATLAB-Arduino communication system to power RF transmitter.

### **Boston University, Dept. of Physics**

Summer 2012

*Research Internship in Science and Engineering- Physics*

*Boston, MA*

- Performed research in X-Ray Diffraction Laboratory, which included studying stress development and nanostructure formation during ion bombardment of silicon.

### **Builders Beyond Borders**

2010-2013

*Volunteer, Student Advisor, Mentor, Fundraiser*

*Norwalk, CT*

- Performed meaningful service projects both in Fairfield County and abroad, in Ecuador (constructed aqueduct system), Nicaragua (built 10 emergency homes), and Guyana (built community center).
- Individually raised over \$8,500, mentored new students and managed team of 40 students.

### **Boy Scouts of America**

2006-2013

*Eagle Scout, Assistant Senior Patrol Leader & Instructor*

*Fairfield, CT*

- Obtained rank of Eagle Scout through years of camping, service and leadership
- Eagle project involved refurbishing the entranceway to the Connecticut Audubon Society by building walkway, repainting, and building bench for nature classes. Project included over 50 volunteers.

## ACTIVITIES

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### **Duke Eco-Marathon Team**

2013-Present

*Electronics and Battery Division*

- Help design and test motorcontroller and battery management system to run a brushless DC motor for Duke's all-electric car team and Shell Eco-marathon race in May.

### **Duke Engineers for International Development**

2013-Present

*El Salvador Team*

- Part of design team of clean water system for La Estancia, El Salvador.
- Traveled with team in the summer 2014 to install water tank, piping and filtratino system to provide the community with clean, running water.

## Delta Tau Delta Fraternity

2014-Present

### *Promotional Chair*

- Oversee promotion and development of the fraternity in the public sphere, which includes designing a new chapter website, managing social media and advertising public events.

### **Other Groups:**

- Communication Manager for Brown Residence Hall House Council, cellist for Duke Symphony Orchestra, tour guide for Duke Undergraduate Admissions.

## SKILLS

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### **Programming Languages:**

Java, Python, HTML, CSS, Ruby/Ruby on Rails, MATLAB

*Currently Learning: C, JavaScript*

### **Spoken Languages:**

English (first language), Spanish (advanced proficiency)

### **Other Technical Skills:**

L<sup>A</sup>T<sub>E</sub>X, Arduino, circuit design and manufacturing, OpenSCAD