

## JOHN J. MURRAY

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*Objective: To apply an education in the scientific principles behind engineering design to a career in industry.*

### EDUCATION

**Fordham University** | Bronx, New York

GPA: 3.53 / 4.00

B.S. Engineering Physics, expected May 2016

Rose Hill Honors Program

Full-Tuition National Merit Scholarship

### EXPERIENCE

**Fordham IT**

*12hrs/week + on call times, Aug 2012 – Present*

***Resident Technology Consultant & User Support***

- Basic hardware/software troubleshooting, network setup, data backup and migration
- Educate students in effective uses of technology through regular workshops

**Fordham IT**

*14hrs/week, Aug 2015 – Feb 2016*

***Technical Assistant – Networks Services***

- Resolve general network connectivity issues, maintain infrastructure, configure hardware for network usage

**National Aeronautics and Space Administration**

*40hrs/week, Jun 2015 – Aug 2015*

***Student Airborne Research Program***

- Participated in research flights aboard the NASA DC-8 Airborne Science platform
- Constructed and presented original research project using airborne data:  
    "Vertical transport of aerosol particles across mountain topography near the Los Angeles Basin"
- Awarded funding to present findings at American Geophysical Union Fall Meeting 2015

### ADDITIONAL EXPERIENCE

**Fordham University Chapter, Engineers Without Borders USA**

*Apr 2014 – Present*

***Technical Lead, Omorio Village Fish Farming Project***

- Project lead for the design and construction of an aquaculture system in eastern Uganda
- Formerly treasurer, managed chapter finances and ensured accordance with the policies of EWB-USA

**Department of Physics, Fordham University**

*Oct 2013 – Jun 2015*

***Undergraduate Research Assistant***

- Studied applications of liquid crystalline thin films as gas detectors and as mechanical stress sensors
- Studied whispering gallery mode detection of nanoscale bodies via laser coupling
- Co-author, "Rebirth of Liquid Crystals for Sensoric Applications: Environmental and Gas Sensors," published in *Advances in Condensed Matter Physics*, vol. 2015.

**Office of Residential Life, Fordham University**

*Aug 2014 – May 2015*

***Resident Assistant***

- Served as primary enforcer of university policy while addressing various day-to-day needs of residents
- Hosted weekly programs to foster community-building and extracurricular education on a limited budget

### RELEVANT SKILLS & COURSEWORK

SolidWorks | MATLAB | Differential Equations | Thermodynamics | Mechanics of Materials | Machine Design  
Fluid Mechanics | Engineering Statics & Dynamics | Electricity and Magnetism | Python for Math & Science