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**Matthew T. Elia**

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## Education

### **Northeastern University, Boston MA**

Candidate for Bachelor of Science in Electrical Engineering, minor in History

May 2018

**G.P.A: 3.37**

**Related Courses:** Embedded Design/Enabling Robotics & Lab, Circuits and Signals & Lab, Differential Equations and Linear Algebra, Calculus 1-3, Linear Systems, Electronics & Lab

**Honors/Awards:** Northeastern University Honors Program, Dean's Scholarship, Merrimack Valley Striders Scholarship

**Activities:** Northeastern University Chapter of AIAA(Rocket to Karmen Line), Intramural Flag Football, Broomball and Volleyball

### **Central Catholic High School, Lawrence, MA**

High School Diploma

May 2013

**Honors:** National Honor Society, recipient of awards in Biology, History, and Religion

**Activities:** Varsity Track and Field, Varsity Cross Country

## Related Experience

### ***Philips Color Kinetics,***

Burlington, MA

*Electrical Engineering Co-op*

January 2015 – June 2015

- Constructed prototype printed circuit board (PCB) designs with engineers and helped to test the functionality and efficiency of designs Utilized CAD software (Altium) to design PCB connector board for ongoing project
- Performed microscope soldering and other tasks which required technical skills in electronics repair and construction

### ***Biomedical Optics Research Group***

Boston, MA

*Undergraduate Lab Assistant*

September 2014 – April 2015

- Research purpose involved use of lasers to examine different types of cells in the bloodstream of mice *in vivo* by measuring the fluorescence of different types of cells
- Designed and constructed a power box and sensor box to improve organization of the system
- Crimped and soldered wires to aid construction of a power box and sensor terminal to power lasers
- Reorganized wire systems to improve neatness and dynamicity

## Skills:

Proficiency with Microsoft Office

Basic knowledge of Solidworks, AutoCAD, MATLAB, C/C++ programming languages, Linux, Altium, Perforce, Arena

## Additional Experience

### ***Elia's Country Store***

Wilmington, MA

*General Employee*

2008 – Present

- Family-owned business, help to manage store-wide tasks assigned to me
- Responsible for refilling product and coordinating deliveries
- Working directly with customers

### ***Big Brother Big Sister***

Boston, MA

*Mentor*

October 2013 - Present

- Spend time with a 3<sup>rd</sup> grade child once a week during lunch
- Advising or providing guidance when asked and offering another adult outlet for advice and help