

2 Kendall Road,  
Tewksbury, MA 01876

**Matthew T. Elia**  
Cell: (978) 995-1697

[elia.ma@husky.neu.edu](mailto:elia.ma@husky.neu.edu)  
[matthewtelia.github.io](http://matthewtelia.github.io)

## Education

**Northeastern University**, Boston MA

Candidate for Bachelor of Science in Electrical Engineering

May 2018

**Related Courses:** Linear Systems, Electronics II, Electromagnetics, Eng. Algorithms, Digital Design and Computer Arch., Circuits and Signals

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

**Activities:** Northeastern University Chapter of AIAA, Intramural Flag Football, Broomball

**International Experience:** Rhetoric and Human Rights in the 20<sup>th</sup> Century, Central Europe

## Work Experience

**Emphysys Inc.**

Woburn, MA

*Electrical Engineering Co-op*

*Worked alongside Electrical Engineers on project management/ product design*

Jan 2016 – Jun 2016

- Assisted in design process (using Altium and NL5) of RF generators for various medical applications
- Worked with LCL circuit design and performed RF tuning on generators
- Coordinated assembly of products to be sent directly to customers
- Managed customer projects while working closely with CEO and CFO

**Philips Color Kinetics,**

Burlington, MA

*Electrical Engineering Co-op*

*Assistant to Electrical Engineering Team*

Jan 2015 – Jun 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*

*Assistant to PHD Candidate*

Sep 2014 – Apr 2015

- Researched 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 power and sensor boxes to improve organization of the system
- Reorganized wire systems to improve neatness and dynamicity

## Skills

Altium, NL5, C/C++ programming languages, OrCAD PSPICE, Linux OS, Verilog, MATLAB, Perforce, Arena

## Additional Experience

**Connections Lab Assistant**

Boston, MA

*Work Study*

Sep 2015 -Dec 2015

- Monitored and provided assistance in the Connections engineering computer laboratory

**Elia's Country Store**

Wilmington, MA

*General Employee*

2008 – Present

- Family-owned business, help to manage and organize store-wide initiatives
- Responsible for refilling product and coordinating deliveries

**Big Brother Big Sister**

Boston, MA

*Mentor*

Oct 2013 – Dec 2015

**Interests:** Space, Skiing, Baseball, Travel