



Andrew Tu

908.642.2165

Boston, MA

tu.a@husky.neu.edu

drewtu2.github.io

Objective: To gain experience in Electrical and Computer Engineering/Science and to narrow a focus in studies by January 2017

Education

Northeastern University (NU) Computer Engineering/Science Dual Major Dean's List – Fall 2015	9/2015 – Present
❖ GPA: 4.0	
❖ Involvement: NUMONET Research, NUCAR Research, IEEE, MIT Ballroom Dance Team, Toastmasters, Lead 360 Blueprint, NU Ultimate Frisbee Team	
Watchung Hills Regional High School National Honor Society AP Scholar with Distinction	9/2011 – 6/2015
❖ GPA: 4.4	
❖ Involvement: Two Year Varsity Ultimate Frisbee Captain, FIRST Robotics Team, Boy Scouts of America, American Legion Jersey Boys State, Peer Leaders, Conrad Spirit of Innovation Design Challenge Team	

Relevant Work Experience

Bohler Engineering IT Intern	1/2016 – 1/2016 (Winter Break)
❖ Shadowed members of the IT department to learn about daily operations and future projects	
❖ Updated instructions manual on installing new CAD Profiles	
❖ Assisted with computer set ups for new hires	
Bohler Engineering Accounting Intern	6/2015 – 8/2015
❖ Developed VBA macros to expedite processes in Microsoft Excel	
❖ Improved digital backup process, backed-up 4+ months of invoices	

Relevant Experience

NUMONET Research - Acoustic Networking Undergraduate Research Assistant	10/2015 – Present
❖ Testbed Development and Performance Evaluation of the TARS MAC Protocol for Underwater Acoustic Sensor Networks, submitted to OCEANS 2016 Conference	
❖ Programming Acoustic Modems for Underwater Networking, submitted to Embark Undergraduate Engineering Review, First Author	
❖ Implemented several basic medium access protocols on Teledyne Benthos SM-975 Acoustic Smart Modems	
NUCAR Research - Side Channel Attacks Undergraduate Research Assistant	10/2015 – Present
❖ Wrote 3 versions of RSA encryption/decryption algorithms in C++	
❖ Hacking your Data – The Hard(ware) Way, poster presentation at 2016 Research, Innovation and Scholarship Expo (RISE) at Northeastern University	
FIRST Robotics Lead programmer & General Member	9/2011 – 6/2015
❖ Assumed role of lead programmer senior year	
❖ Competed in St. Louis National Championships 2012 & 2015.	
❖ Worked in mechanical, electrical, and programming divisions	

Achievements

Conrad Spirit of Innovation Design Challenge Semi-Finalists	4/2015
❖ Designed microbial fuel cell to break down petroleum in water and produce electricity	
Boy Scouts of America Eagle Scout (Bronze Palm)	12/2014
❖ Planned, executed, and led over 30 volunteers through a 500+ people hour project constructing a historical trailhead and picnic area.	
❖ Utilized Autodesk Inventor to create CAD drawings of all pieces built	

Skills

Programming Languages

- ❖ Familiar with: C++, MATLAB, Javascript, HTML, CSS, Java, Visual Basic