

Nicola Thomson

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301.651.0888

EDUCATION

Tufts University, Medford, MA

Bachelor of Science in Computer Engineering, expected May 2017

Master of Science in Electrical Engineering, expected May 2017

GPA: 3.53

RELEVANT COURSEWORK AND PROJECTS

Courses:

Microprocessor Architecture and Applications, Digital Logic Systems, Electronics 1, Data Structures, Engineering Graphics, Simple Robotics, Linear Systems, Probabilistic Systems Analysis, Electromagnetic Fields and Waves, Web Programming, Multivariable Calculus, Differential Equations, Discrete Mathematics, Computational Theory.

Projects:

Swambots: Designed and created two robots, which had to communicate with each other using infrared signals to complete a line following course together, with a team of five partners

Timer Project: Created a fully functional countdown timer with alarm and visual display using several ICs with two partners

QuickSplit: Designed and programmed a web application which finds the best way to split a check when a group is paying in cash, by seeing who can make change with whom, with three partners

Boggle Solver: Programmed in C++ a program to solve a boggle board, and check and score user answers

SKILLS

Software: LTSPICE, AutoCAD, Autodesk Inventor, SolidWorks MathCAD

Programming Languages: MATLAB, C++, C#, Python

Web Design: HTML, CSS, JavaScript, Bootstrap, AngularJS

EXPERIENCE

Microsoft, Redmond WA

Software Engineer Intern, May 2015 – July 2015

- Wrote actions in C# for Azure SQL DB in order to increase flexibility of the system
- Created tests in C# to verify the accuracy of the actions written

Tufts University Department of Computer Science, Medford MA

Teaching Assistant, September 2014 – Present

- Explained computer science concepts to students in office hours
- Taught good programming and debugging practices to students
- Graded student homework, analyzed for clarity of code and functionality

IBM, Littleton MA

Software Developer Intern, June 2014 – August 2014

- Redesigned the change your password workflow for the Emportis Suite product to make it more responsive and mobile friendly using AngularJS and Bootstrap
- Implemented unit and end to end tests using Karma and Protractor
- Worked as part of a larger team to rework the entire log in workflow to be more responsive and to improve ease of testing and later adjustment of the page

ACTIVITIES/ INTERESTS

Institute of Electrical and Electronics Engineers, *Member*, April 2014 - Present

Alpha Omicron Pi, *Delta Chapter Songmaster*, March 2014 - Present

Tufts Opera Ensemble, *Member*, September 2012 – Present