KYLE SLINGER

34 Burget Avenue, Medford MA
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http://ksling01.github.io/

EDUCATION

Tufts University Medford MA

B.S. Electrical Engineering   **2015 (Expected)**

GPA 3.21

AWARDS

Dean's List   **2011-2012**

Relevant Coursework

Tufts University Medford MA

Analog Electronics I & II (EE21 & EE22)

Introduction to Digital Electronics (ES4)

Multivariable Calculus (Math 13)

Differential Equations (Math38)

Linear Algebra (Math 46)

Data Structures in C++ (Comp 15)
Microprocessor Architecture (EE 14)
Probabilistic System Analysis (EE 104)
Linear Systems (EE 23)
Electromagnetics (EE 18)
Digital Logic Systems (EE 26)
Modern Physics (PHY 13)

Engineering Projects

Tufts University Medford MA
Swarm Robot   **2014**

-Constructed and designed an autonomous swarm robot that communicated with one other robot to detect sites of chemical toxicity (imitated by colors instead due to potential hazards).

-Made use of an ARDUINO board, H-Bridge, Light Sensors, LED's, Infra-Red Communication, collision detection mechanism, and an electro-mechanical drive system to accomplish the task.

- Gained experience with embedded programming, light sensing, signal processing, and amplitude modulation/demodulation.

Digital Counter   **2013**

-Designed a timer that counts down to zero from a specified number and upon reaching zero uses a speaker to play sound frequencies corresponding to specific clock pulses.

- Used combinational logic circuits and programmed an EPROM to solve the problem.

Song Search Engine   **2014**

-Created a search engine for a large database of songs and their lyrics.

-A Specific word was typed and the top ten songs that contain that word were given to the user.

-Implemented various C++ data structures and algorithms to create a program that would run quickly and effectively with large amounts of data.

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Experience

Tufts Student Fund Leadership Corps –Athletic Chair   2014

- Responsible for promoting philanthropy and raising money through the athletic community
- Plan and volunteer at campus fundraising events to promote financial aid and student giving
- Attend alumni events on campus and speak with board of trustee donors

Balance your Life Tufts-Webmaster   2012-2014

-Updates and maintains all websites for BYL

-Makes sure that events are updated and posted, resources and information are in the correct place, and maintains and designs interactive web components
-Works closely with contributors to the blog and all other websites.

Tufts Varsity Baseball Team   2011-2014

- Dedicate 30-40 hours/week in-season; 10-20 hours/week in off-season.
-New England Division III Pitcher of the year
-1st team All-American Division III

Skills

C++
VHDL
Assembly Language
Visual Basic
MatLab
Arduino
Digital Circuit Design
AutoCAD (3D modeling and design)