

# **Kyle Slinger**

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## **EDUCATION:**

Tufts University Medford, MA 2015 (expected)  
B.S. Electrical Engineering, GPA 3.21

## **RELEVANT COURSEWORK:**

Analog Electronics I & II	Microprocessor Architecture
Introduction to Digital Electronics	Probabilistic System Analysis
Multivariable Calculus	Linear Systems
Differential Equations	Electromagnetics
Linear Algebra	Digital Logic Systems
Data Structures in C++	Modern Physics
Engineering Management	Feedback Control
Communication Systems	Physics of Solar Cells

## **SKILLS:**

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

## **ENGINEERING PROJECTS:**

### **Swarm Robot (2014)**

- Designed and constructed 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.

### **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.

## **Experience:**

### **Tufts Student Fund Leadership Corps- Athletic Chair (2014)**

- Responsible for promotion 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

### **Student Athlete Advisory Committee –Executive Promotions Chair**

- Responsible for promoting Tufts Athletics events/games to general student body
- Design logos and pictures to be used by Advisory Committee and Tufts Athletics
- Work with sports information director to update Athletics Website

### **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 2013
- 1<sup>st</sup> team All American Division III 2013
- Varsity Team Capitan 2014