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EDUCATION

Duke University, Pratt School of Engineering, Durham, NC

B.S.E. Electrical & Computer Engineering, B.S. Computer Science (Expected May 2016)

Mathematics Minor

Cumulative GPA: 3.714, Major GPA: 4.0

Relevant Coursework:

Computational Methods in MATLAB

Fundamentals of Electrical and Computer Engineering

Microelectronic Devices & Circuits

Signals and Systems

Data Structures and Algorithms

Multivariable Calculus

Linear Algebra

Elementary Differential Equations

Software Design/Implementation (in progress)

Computer Architecture (language: C/MIPS, in progress)

Random Signals & Noise (in progress)

Probability (in progress)

Undergraduate Teaching Assistant:

ECE 280 - Signals and Systems (Spring 2014)

Administer labs, assist students in completing projects, and grade lab reports

ECE 110 - Fundamentals of Electrical and Computer Engineering (Fall 2013)

Hold office hours to assist students on homework and grade homework assignments

PROJECTS

Completed over 35 algorithmic problems from TopCoder

Created a classic shooter game based off of the Mario series using JGame, an open source 2D game engine (Java)

Implemented a program that animates mass-spring systems using JGame and JBox, a 2D physics engine (Java)

Designed a program that, given a lexicon, solves for all possible words on a Boggle board using recursive backtracking (Java)

Utilized LTspice to simulate/test circuits and then built a speaker, implemented as a class-D Amplifier, with bass, treble, and volume control

TECHNICAL PROFICIENCIES

Languages:

Java, MATLAB, Latex, Git, HTML/CSS (basic), C basic

ACADEMIC HONORS

Dean's List (Fall 2012, Fall 2013)

University Scholars Program Finalist

National Merit Scholar

AP Scholar with Distinction

EXTRACURRICULAR ACTIVITIES

Powerlifting/Olympic Lifting

Duke E-team: Advise freshmen on course selection