

EEYI OON

eeyi.oon@duke.edu (919) 964-1648

Education:

Duke University, Durham, NC

May 2017

Electrical and computer engineering, creative writing minor

GPA 3.5, Dean's List (Fall 2013)

Relevant coursework: Digital Audio Processing, Operating Systems, Digital Systems, Solar Cells

National University Singapore, Singapore

May 2016—June 2016

Environmental Policy

Oxford University, Oxford, UK

June 2015—August 2015

Victorian Literature

Engineering experience:

Synthesizer Project, *Digital Audio Processing Course*, Duke University

- Simulated the musical physics of a piano and guitar to synthesize the sound in MATLAB
- Worked with another student to make my script take in the correct input

Solar Cell Analysis Project, *Solar Cells Course*

- Collaborated with others in researching industry literature to determine a method of solar cell manufacture
- Measured the efficiency of our manufactured solar cell using tools in Duke's clean room facility

Computer Security Project, *Operating Systems Course*

- Hacked one of Duke's servers by exploiting a weakness in the code and changing the server's public html

Work and volunteer experience:

Girls Make Games, Lead Counselor, Research Triangle Park

May 2016—July 2016

- Lead a team of three in managing a camp of 11 girls ages 8 through 14 of a wide range of skill levels
- Learned how to use and troubleshoot a game engine developed to teach block coding
- Prepared and taught lessons for each day
- Empowered girls with no prior coding experience to create code for the games they designed

EcoTeach, Work Study

August 2014—Present

- Managed day-to-day office operations including filing, scanning, data entry
- Organized filing system for more efficient use of office space

Shodor Education Foundation, Apprentice

Nov 2011—August 2012

- Designed a personal portfolio web page and an organizational web page using HTML, CSS, and PHP
- Created models of natural phenomena such as population growth and forest fires
- Edited educational tutorials for graphic design tools such as GIMP and Inkscape

FEMMES

August 2013—December 2013

- Taught middle school aged girls basic engineering concepts in an afterschool program

Kramden Institute

May 2011—August 2012

- Refurbished computers to be donated to low-income students
- Installed hard drives, RAM modules, CD drives, OS
- Streamlined the computer refurbishing process by maintaining an organized inventory of RAM modules and other hardware

Programming Skills and Languages:

MATLAB, Java, C, Arduino

Mandarin (conversational)