

# THUNDERBIRD 2678

## PROJECTS

### MORIYA SHRINE

INTELLIGENT MOOD LIGHTING SYSTEM | *SEP. 2017 - DEC. 2017*

- Implemented **data analysis** functionalities using **C++**
- Built **cross-compilation toolchain** for the MIPS24K architecture on a **Linux system**
- Wrote **shell scripts** to automate hardware interfacing on the **Linux-based IoT SoC**
- **Redesigned hardware and software** continuously based on various test cases

### LUCIFER

ARDUINO-DRIVEN SINGLE PIXEL CAMERA | *SEP. 2016 - JAN. 2017*

- **Designed and built hardware** consisting of motors, various IC's, and LED displays
- Programmed functionality using **Arduino, Processing, and Java**
- **Optimized** hardware and software, reducing time to take an image from 2 hours to 15 minutes
- End result capable of producing a 300x300px image utilizing a single photoresistor

### LAST STAND DEFENSE

JAVA TOWER DEFENSE GAME | *MAY 2016 - JUN. 2016*

- Designed and implemented intuitive and responsive **mouse-driven GUI** based off of **JFrame**
- Automated management of resource directories utilizing **Python**
- **Communicated effectively** to resolve conflicts between team members

### RUMMI-KYUBEY

JAVA CARD GAME SIMULATOR | *APR. 2016 - MAY 2016*

- Wrote backend **object-oriented** model to represent game elements
- Designed custom game visuals using **Adobe Photoshop** and **Adobe Illustrator**
- Took initiative to rewrite custom implementations of **Java** graphics classes to streamline UI

## EXPERIENCE

### A STORE | WATERLOO, ONTARIO

DIRECTOR | *SEP. 2017 - DEC. 2017*

- Responsible for **overseeing storefront** of the Engineering Society hardware store
- Interacted with customers, **providing purchase advice and support** for various projects
- **Organized inventory** and restocked items on a regular basis

### A FINANCIAL COMPANY INC. | MARKHAM, ONTARIO

TECHNOLOGY CONSULTANT AND DEVELOPER | *JUN. 2013 - AUG. 2017*

- Performed **routine diagnostics and maintenance** to maximize equipment lifespan
- **Troubleshooted** unforeseen hardware, software, and networking issues
- **Advised managers** on QoL hardware purchases, maximizing spending efficiency
- Created website with **WordPress** and **CSS**, increasing internet presence

### AN ACADEMY OF MUSIC | MARKHAM, ONTARIO

ASSISTANT TEACHER | *SEP. 2014 - AUG. 2016*

- **Developed lesson plans** based off the Royal Conservatory of Music's Advanced Rudiments
- Communicated effectively with many **Mandarin-speaking** parents to ensure understanding
- Successfully helped majority of students achieve **examination marks of over 95%**

### THE \*NOUN\* OF \*PROPER NOUN\* | TORONTO, ONTARIO

PRINT DEVELOPER | *OCT. 2013 - JUN. 2015*

- Developed newspaper layout using **Adobe InDesign** and **Photoshop**
- **Lead design team** to ensure effective utilization of page space
- **Wrote style guide** for print team, leading to more consistency in page designs

✉ namehere@uwaterloo.ca

📞 pho-nen-umber

🌐 mynamehere

👤 myusernamehere

## SKILLS

### LANGUAGES

Java • Arduino • C++ • Python • Processing

### WEB DEVELOPMENT

HTML5 • CSS3 • JQuery • Wordpress

### OTHER

Unix • Microsoft Office • Adobe CC • Mandarin Proficiency

## EDUCATION

### UNIVERSITY OF WATERLOO

Computer Engineering, Honours Co-Op  
B.ASc Candidate, 2017- 2022

### COOL NAME C.I.

Earth and Space Science Award  
Cool Program, Class of 2017

## INTERESTS

### GAME MODDING

Heavily involved in implementing visual modifications for TES V: Skyrim  
Edited and rigged models and hitboxes for Super Smash Bros. Brawl mods  
Developed modification tools for World of Warships  
Volunteered as a Ubisoft game tester, offering feedback for several titles

### MUSIC IMPROVISATION

Organized music ensembles throughout high school  
Ran a YouTube channel for a variety of piano arrangements

### UI CUSTOMIZATION

Wrote and modified custom visual styles for Windows  
Designed and implemented a personal interface for Firefox  
Utilized *Stylish* plugin to write custom visual styles for various webpages

### COMPETITIVE GAMING

Officer and player on a top-50 server ranking World of Warships team  
Worldwide rank of ~7000 in Osu