FELTS

Capstone 1, Summer 2 2015

By: Connor Igo, Joe Gorse, Dan Cardin (Douche Canoe), Gunnar Boehm, Chris Holtsnider

Advisor: John Kimani 

Table of Contents

Abstract 3

Introduction 3

Problem Formulation 4

Impact of the Project

Analysis

Design Strategy (Include options considered, ones selected, and alternatives for risk reduction)

Division of tasks among team members

Time line showing dependencies and major testable milestones

Cost (Show total cost and cost to project in separate columns if different, eg. because of borrowed or donated items)

Conclusion

Appendices (eg. catalog copies, spec sheets, etc.)

References

# Abstract

[item name] is an energy efficient, convenient new way to control your home lighting. Connecting to your current home network [item name] will be able to automatically control the lights in your house. Bringing Wi-Fi and motion sensors to your light switches allows you to set schedules and rules for managing your home lighting, saving money, energy and time.

We put a miniature Chris inside your wall and he turns your lights on and off, if you catch him he will have to give you his pot of gold, but only when there is a rainbow out. We decided to use leprechauns to power our project because they don’t apply to humanitarian laws so we can take them as slaves. Having pots of gold also allows us to make insane amounts of money, and also gives people incentive to buy our product for obscene amounts of money. Also he can provide Lucker Charmers every morning if the kids catch him, they are magically delicious.

# Introduction

[item name] will be a direct replacement for your current lighting setup, going directly inside the wall and replacing the existing switch. Using each switch as an endpoint they will be networked with the central hub that will be responsible for controlling all switches. The hub will be accessible through any Internet browser, which will support remote control of individual switches, rules, and scheduling. Each switch will also have a manual override button, a motion sensor, as well as a status LED.

# Problem Formulation / Impact

Currently there are very few existing consumer available solutions for automated lighting. Wi-Fi light bulbs are the most common to date, with the main drawback being that every time a bulb needs to be replaced a new module needs to be purchased and re-setup, as well as needing proprietary applications to run properly. Light bulbs also lack scheduling and rules that [item name] can provide. For in wall solutions Belkin has a similar product that is exclusive to its WeMo in home setup. We have more features and are cooler, and we hope ours costs less.