

# PiHue

Yan Yu

# PROPOSAL

The goal of this project is to control hue light bulb by using Raspberry Pi, and also can interact with other devices (e.g. smartphone) through IFTTT

Philips Hue Starter Kit is a interesting product. I want to discover the possibilities of connecting Hue bridge to Raspberry Pi

# BUDGET

Required Items	Quantity	Cost
Philips Hue White A19 Starter Kit	1	\$69.99
Ethernet Cable	3	\$4.99
Raspberry Pi 2 Model B	1	\$49.99
TP-Link Desktop Switch*	1	\$14.99
USB-C to Gigabit Ethernet Adapter*	1	\$29.00
Total	7	\$168.96

# SCHEDULE

- **Week 1-2:** previous project canceled, make up new project and start researching
- **Week 3-4:** bought required parts and start hardware assembling
- **Week 5-6:** software installation and program testing
- **Week 7-9:** database communication and IFTTT setup
- **Week 10-11:** python application
- **Week 12-13:** open house demonstration and program debug

# COURSE KNOWLEDGE UTILIZED

- Internet programming
- Technical C
- Programming Techniques in Java
- UNIX Internals, UNIX Scripting
- Database with Java (json)
- Network Programming
- Python