**Cloud-Based Light Switch Project Development**

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Hardware:

* Arduino Pro Mini 3.3V (On-hand)
* ESP8266 WiFi chip (On-hand)
* Home router (On-hand)
* Android smartphone (On-hand)
* A regular ol’ lightswitch (Home Depot)

Software:

* Arduino Software IDE (C)
* Android Studio (Java)
* HTTP, UDP communication

Testing:

* Voltmeter
* Software debugging tools
* Unit tests

Documentation:

* UML
* Flowcharts
* Circuit Diagrams
* Software documentation
* ReadMe
* Project log