

Health Monitoring System Hardware List

Arduino Tiny Machine learning Kit -

https://robu.in/product/arduino-tiny-machine-learning-kit/?gclid=Cj0KCQjw6_CYBhDjARIsABnuS zr2RxoCXfnUr6HoCQuMS3V8zVCpdMKfsn631F6XdR5OFEUqh3YlcbkaAv1PEALw_wcB

Price: Rs. 4795

MAX30102 Heart Rate and Pulse Oximeter Sensor Module - <https://robu.in/product/max30102-heart-rate-and-pulse-oximeter-sensor-module-black/>

Price: Rs. 319

1.3 Inch I2C OLED Display Module 4pin (WHITE) - <https://robu.in/product/1-3-inch-i2c-iic-oled-lcd-module-4pin-with-vcc-gnd-white/>

Price: Rs. 549 (I2C address: 0x3C)

Plusivo Soldering Iron Kit For Electronics - <https://robu.in/product/plusivo-soldering-kit-for-electronics/>

Price: Rs. 1,049

TP4056 1A Li-Ion Battery Charging Board Micro USB with Current Protection - <https://robu.in/product/tp4056-1a-lipo-battery-charging-board-micro-usb-with-current-protection/>

Price: Rs. 29

3.7V 650mAH (Lithium Polymer) Lipo Rechargeable Battery - <https://www.electronicshub.in/3.7v-650mah-lipo-rechargeable-battery-for-drone?search=3.7v%20650mah>

Price: Rs. 396

5V 1 Amp DC Adapter with Micro USB Cable - <https://www.electronicshub.in/power-supply/adaptor/5v-1-amp-adaptor-with-micro-usb-cable>

Price: Rs. 183

Boost Converter Step-Up Module (Quantity = 2)- https://www.electronicshub.in/1.5v-1.8v-2.5v-3v-3.3v-3.7v-4.2v-to-5v-dc-dc-boost-converter-step-up-module?gclid=CjwKCAjw-L-ZBhB4EiwA76YzOb7PRTAyyDje3-_A7ePKE29N9KIWH_zxuAzGtCZsQOLkTgyBjq1INRoCPpkQAvD_BwE

Price: Rs. 186

3.7V 160mAH Lipo (Quantity = 2) - https://www.electronicshub.in/3.7v-160mah-lipo-battery-india?gclid=CjwKCAjw-L-ZBhB4EiwA76YzOZZE78GoSZUvscmx8Qi_oZfUfIyy9A5dMDWql6Dk5E22LbkG

Ov4wYRoCTi4QAvD_BwE

Price: Rs. 250

TP4056 Charging module (Quantity = 2) - https://www.electronicshobbyworld.com/tp4056-1a-li-ion-lithium-battery-charging-module-with-current-protection-micro-usb?gclid=CjwKCAjw-L-ZBhB4EiwA76YzOfXvrRTkTj_v9u_fiue7AvTcv_L7YGxYjTIL1A8ZFE5JFZLSPQx23RoCZnYQAvD_BwE

Price: Rs. 48

SPDT ON-OFF-ON Switch (Quantity = 1)- <https://www.electronicshobbyworld.com/spdt-on-off-on-rocker-switch?search=spdt%20switch>

Price: Rs. 25

Total Cost: Rs. 7,829

Boost Converter Step-Up Module (Quantity = 2)- https://www.electronicshobbyworld.com/1.5v-1.8v-2.5v-3v-3.3v-3.7v-4.2v-to-5v-dc-dc-boost-converter-step-up-module?gclid=CjwKCAjw-L-ZBhB4EiwA76YzOb7PRTAyyDje3-_A7ePKE29N9KIWH_zxuAzGtCZsQOLkTgyBjq1INRoCPpkQAvD_BwE

3.7V 160mAH Lipo (Quantity = 2) - https://www.electronicshobbyworld.com/3.7v-160mah-lipo-battery-india?gclid=CjwKCAjw-L-ZBhB4EiwA76YzOZZE78GoSZUvscmx8Qi_oZfUfIyy9A5dMDWql6Dk5E22LbkGOv4wYRoCTi4QAvD_BwE

TP4056 Charging module (Quantity = 2) - https://www.electronicshobbyworld.com/tp4056-1a-li-ion-lithium-battery-charging-module-with-current-protection-micro-usb?gclid=CjwKCAjw-L-ZBhB4EiwA76YzOfXvrRTkTj_v9u_fiue7AvTcv_L7YGxYjTIL1A8ZFE5JFZLSPQx23RoCZnYQAvD_BwE

SPDT ON-OFF-ON Switch (Quantity = 1)- <https://www.electronicshobbyworld.com/spdt-on-off-on-rocker-switch?search=spdt%20switch>

Total cost (With GST + Delivery) = Rs. 600

Project details

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1.3 Inch I2C OLED Display Module 4pin- WHITE

Display driver: SSH1106

Arduino library name: Adafruit SH110X

I2C address: 0x3C

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Project Resources

Creating Bluetooth Android App to Control Arduino Board - <https://medium.com/swlh/create-custom-android-app-to-control-arduino-board-using-bluetooth-ff878e998aa8>

Connecting Arduino WiFi to the Cloud Using ESP8266 - https://www.google.com/amp/s/www.instructables.com/Connecting-Arduino-WiFi-to-the-Cloud-Using-ESP8266/%3famp_page=true

DIY Fitness Tracker | Arduino Nano 33 BLE SENSE | Edge Impulse - <https://www.youtube.com/watch?v=BUWZJulqC2I>

One Wearable API that connects to 300+ devices & fitness app - <https://www.humanapi.co/wearable-api>

An open-source "smart watch" that can be built from easily available parts, and assembled by hand - <https://hackaday.io/project/2263-oshwatch>

Pulse Express Pulse-Ox & Heart Rate Sensor with MAX32664 - <https://protocentral.com/product/pulse-express-pulse-ox-heart-rate-sensor-with-max32664/>

Get fit edge impulse blog - <https://www.edgeimpulse.com/blog/ai-want-to-pump-you-up>