***The Governor’s STEM Competition***

***Bishop Shanahan High School***

***Regional Competition Projected Budget***

**“Code Blue”**

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| --- | --- | --- | --- |
| Item Name | Usage | Quantity | Cost |
| Arduino Uno Microcontroller | Main component in prototype - controller of program | 1 | $24.95 |
| Seeed GPRS Shield V2 | TCP/IP Connection with Arduino | 1 | $47.67 |
| Adafruit Ultimate GPS Breakout | GPS coordinate logger | 1 | $39.95 |
| Dht11 Temperature Sensor | Real Time Temperature Readings | 1 | $1.50 |
| Python Server / MySQL Database | Registers coordinates, connects to Google Maps API | 1 | Free of charge! (Not free of headaches) |
| SIM CARD | Used to send info between device / server | 1 | ?????? |
| 9V Battery | Power source | 2 | $2.99 |
| Adafruit Powerbooster 500 Shield | Rechargeable backup power module | 1 | $29.90 |
| 12v DC Fan | Cooling the prototype | 1 | $19.99 |
| Hand Crank Generator | Main source of power | 1 | $64.95 |
| Cart Materials |  |  |  |
| Casing / Enclosure |  |  |  |
| Total Parts | Prototype Device | 10 | $228.91 |

[Faucet Queen Super Deluxe Swiveler Shopping Cart, Black](https://www.google.com/shopping/product/17608793742168184734?q=shopping+carts&biw=1366&bih=651&bav=on.2,or.r_cp.&bvm=bv.104819420,d.cWw&tch=1&ech=1&psi=uCscVraHJYTd-QHk043oCg.1444686781731.5&prds=paur:ClkAsKraX9Aesc_zSqtc-GXG1LVVj0hsIAUt5tByAlK3i2SshR_Eu1-C4I3XgHMQxPTLBVjedt7vdAcMezuyVHvZrgc-_T50xeBD569bEXcqcAZWV4Vs_8DiPhIZAFPVH72_8YbmTzIms1QwZV8fOky6yfJUiQ&sa=X&ved=0CNMCEM1KMAFqFQoTCOfmsvD1vcgCFcl5Pgod_EsJ5w)

$26.69 - Not a full size shopping cart, portable, can carry stuff

We should either make or get one like this

Dimensions - 18.5" x 15.5" x 23.5".