

Estimated Cost

The list of components ordered so far and their costs are shown below:

Component	Quantity	Price per Unit (£)
Arduino T010051 Digital Continuous Servo Module (360°)	2	11.25
Miniature 240V SPDT Vertical PCB Slid	4	0.39
Battery AA Alkaline 1.5V (Energiser)	4	0.24
RVFM Foolscap Letter Tray - Black	1	2.07
ST L7805CV +5V 1A Voltage Regulator	1	0.28
Modelcraft RS 2 JR BMS-410C Plastic Gear JR Standard Analogue Servo	1	5.12
Adafruit 1967 Mini Pan-Tilt Servo Controlled Brackets	1	16.18
Atmel ATTINY85-20PU, 8bit AVR Microcontroller, 20MHz, 8 kB, 512 B Flash, 8-Pin PDIP	1	1.64
3D printed rod of dimensions 5x10x15 120g	1	3.60
	Total Cost:	53.91

This includes the cost of the mechanical parts: motors, rods and the tray as well as the cost of building the circuit with all the electronic components. To build a complete prototype the costs of manufacturing the exterior of the machine, the QR scanner and the camera need to be included. The estimated cost of these items is the following:

- Exterior (includes the cover of the machines as well as four compartments) - £30
- QR scanner - £10.99, price taken from (Amazon, 2016)
- Camera - £24, price taken from (eBay, 2016)

The overall estimated cost for the entire machine is £118.9.