BOM for Inverted Pendulum

Item	QTY	Part	Link
1	1	Arduino Uno	https://www.amazon.com/Arduino-A000066-ARDUINO-UNO-R3/dp/B008GRTSV6/ref=sr_1_3?dchild=1&keywords=arduino+uno&qid=1586486894&sr=8-3
2	2	Rotary Encoder	https://www.amazon.com/gp/product/B00UTIFCVA/ref=ppx_yo_dt_b_asin_title_o07_s00?ie=UTF8&psc=1
3	1	12V DC Motor	https://www.amazon.com/gp/product/B072R5G5GR/ref=ppx_yo_dt_b_asin_title_o01_s00?ie=UTF8&psc=1
4	1	Motor Driver	https://www.amazon.com/gp/product/B014KMHSW6/ref=ppx_yo_dt_b_asin_title_o09_s00?ie=UTF8&psc=1
5	1	Linear Rail	https://www.amazon.com/gp/product/B07GBQ8GTY/ref=ppx_yo_dt_b_asin_title_o06_s00?ie=UTF8&psc=1
6	4	10mm standoffs	https://www.digikey.com/product-detail/en/keystone-electronics/24337/36-24337-ND/1532138
7 ~3ft		3GT timing belt	https://openbuildspartstore.com/3gt-gt2-3m-timing-belt-by-the-foot/
8	2	Belt Clamps	https://openbuildspartstore.com/belt-clamp-crimp-style/
9	1	M3 screws/hex	https://www.amazon.com/gp/product/B072FKMYMF/ref=ppx_yo_dt_b_asin_title_o05_s00?ie=UTF8&psc=1
10	2	Timing Pulley	https://openbuildspartstore.com/3gt-gt2-3m-timing-pulley-20-tooth-250-bore-9mm-belt/

If you don't have a DC Power Supply w/ 12V capability I'd recommend getting one of these and filling it with AA batteries:

Item	QTY	Part	Link
11	1	12V Battery Case	https://www.amazon.com/gp/product/B00VE7HBMS/ref=ppx_yo_dt_b_asin_title_o00_s00?ie=UTF8&psc=1