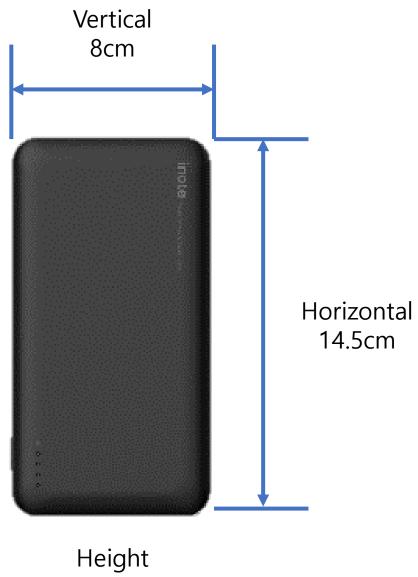
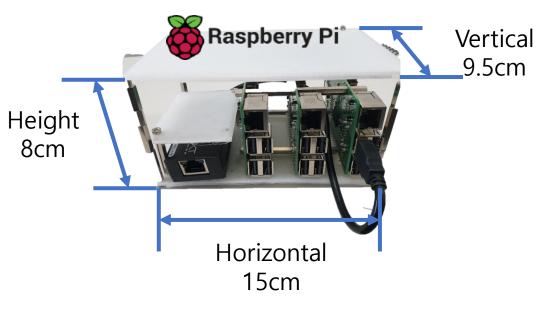
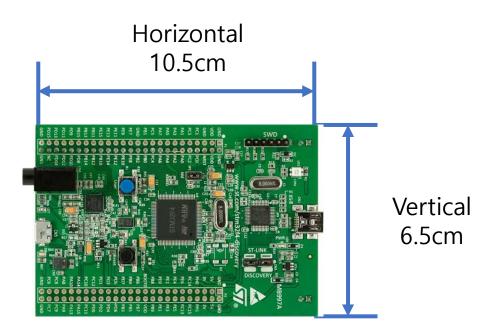
자율주행 카트 설계

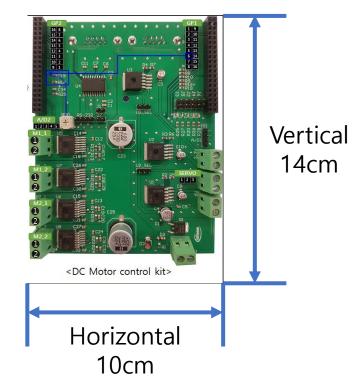




3cm





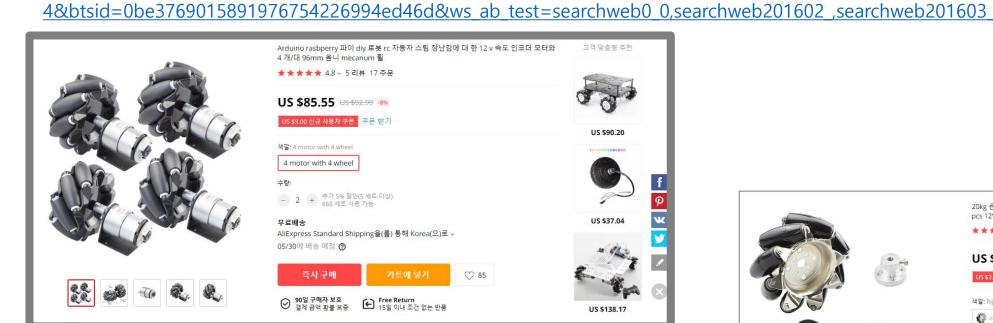


Height

7cm

엔코더 모터

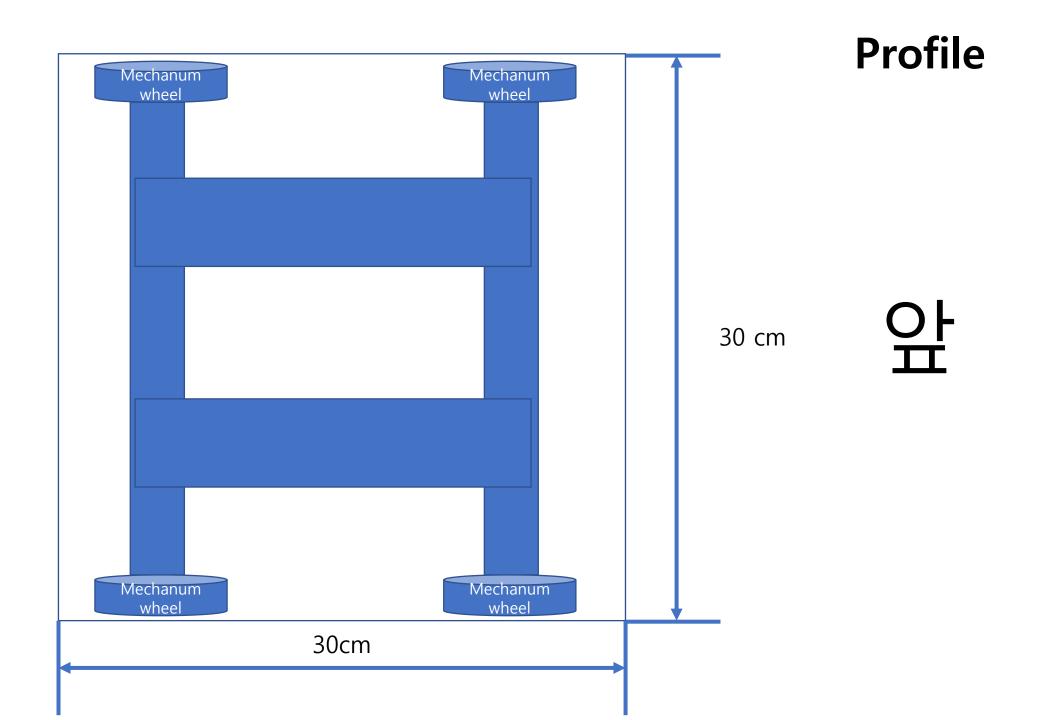
 $\frac{https://ko.aliexpress.com/item/4000271714727.html?spm=a2g0o.productlist.0.0.389136c5qO9bEs\&algo_pvid=6e34077b-07fe-41d5-8872-3506fc14e1f1\&algo_expid=6e34077b-07fe-41d5-8872-3506fc14e1f1-$

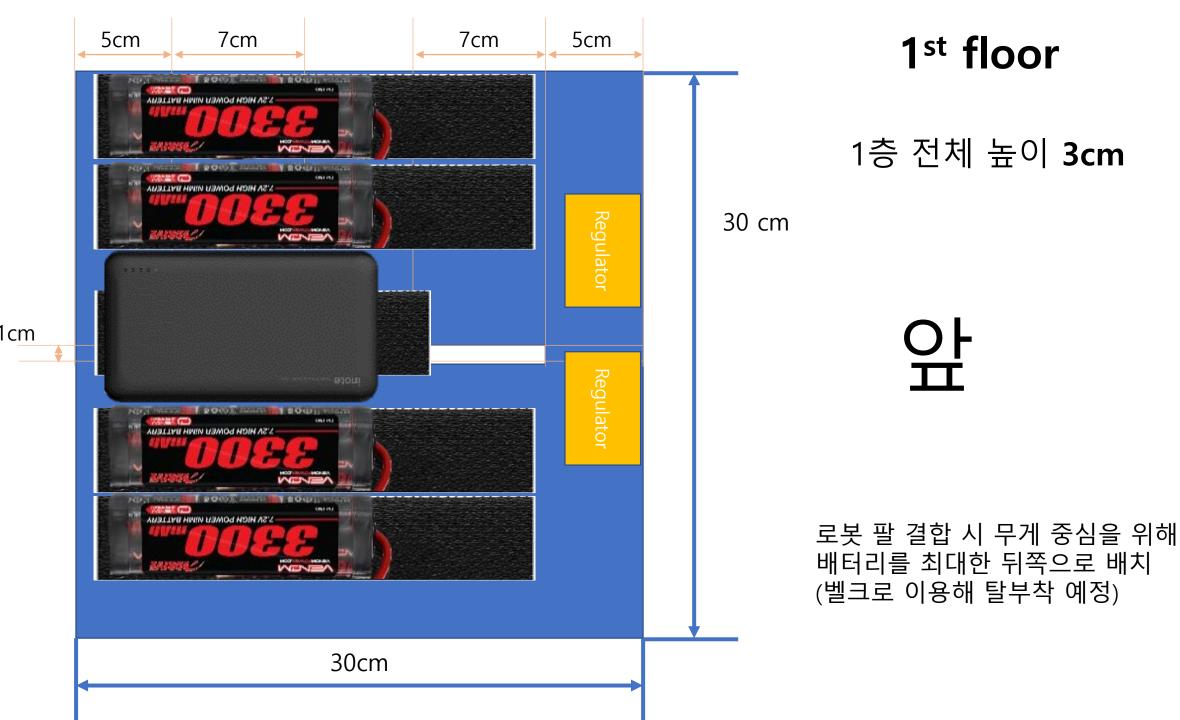


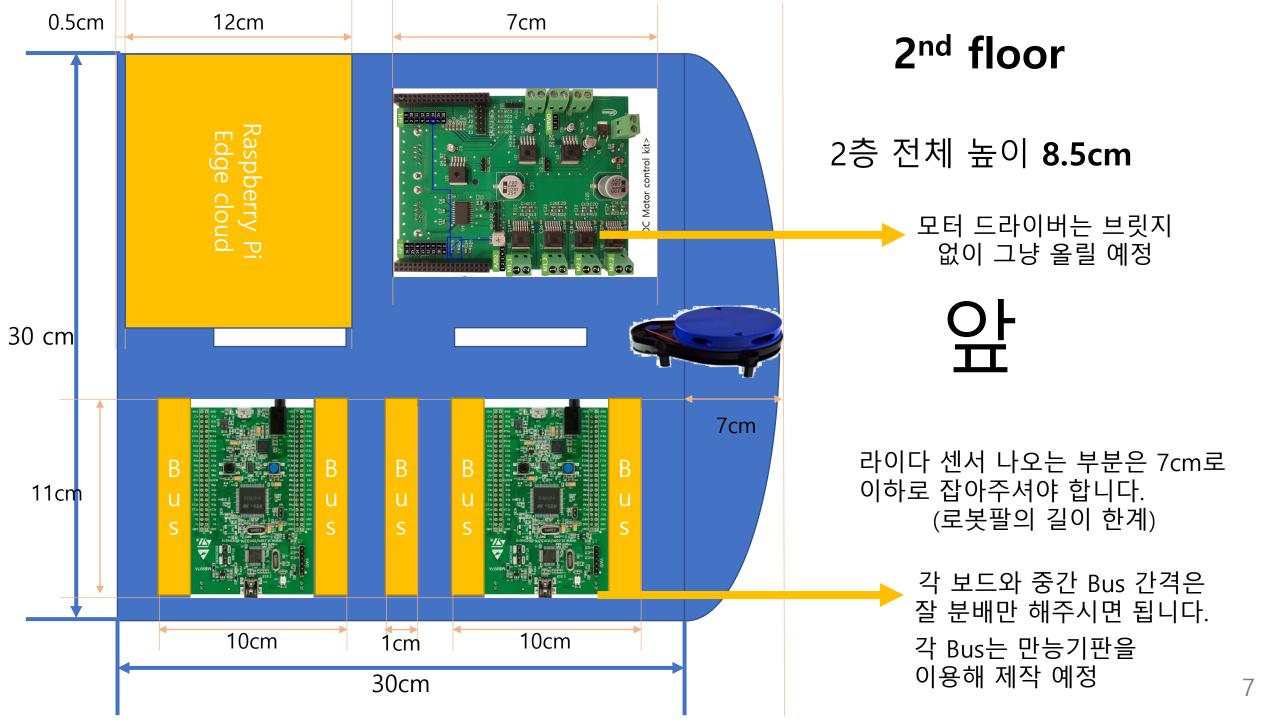
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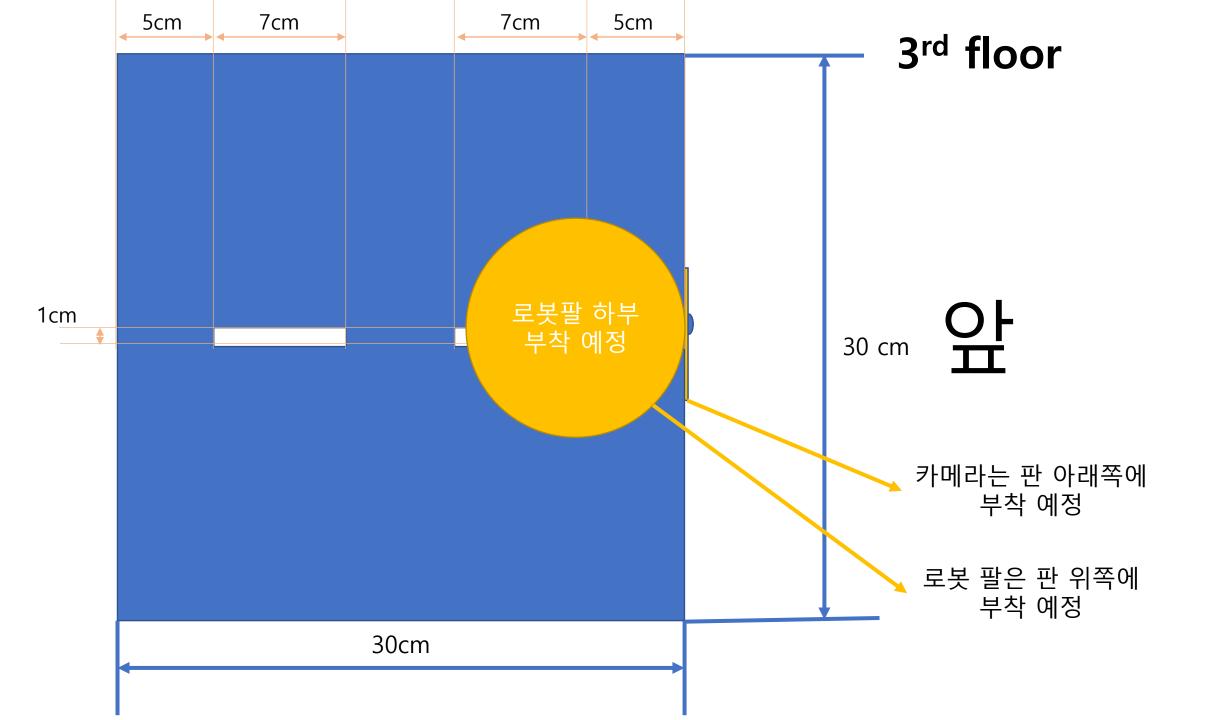
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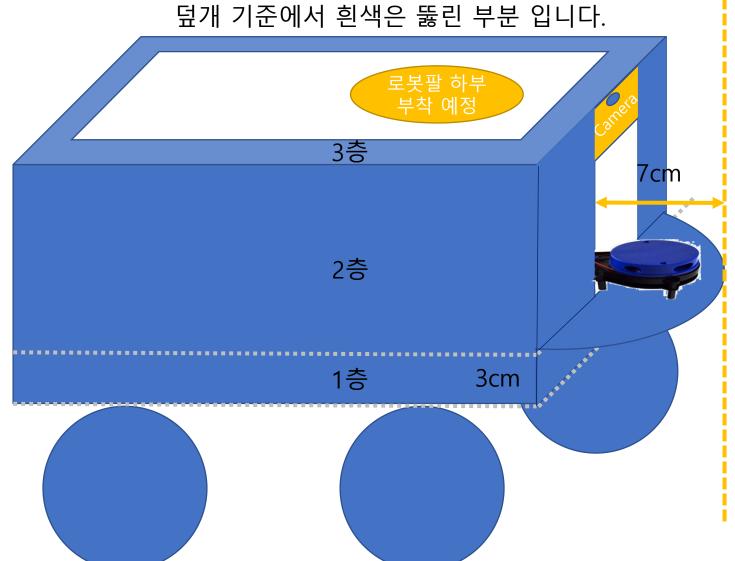




덮개

위에서 아래로 덮을 수 있는 덮개 입니다. 논의 필요 3층 7cm





LiDAR 목록

Neato XV-11



Amazon \$32.99



YDLiDAR X2



AliExpress \$79.99

디바이스마트 ₩79,000

YDLiDAR X4



AliExpress \$112.50

YDLiDAR G2



AliExpress \$266.94

디바이스마트 ₩85,000 □바이스마트 ₩189,000

RPLIDAR A2



AliExpress \$368.00

디바이스마트 ₩440,000

Model	X2	X4	G2
Sampling frequency(HZ)	3000	5000	5000
Range frequency(HZ)	5-8	6-12	5-12
Range Radius(m)	0.1-8	0.12-10	0.1-10
Baud rate	115200	128000	230400
Size(mm)	55x38.89x101.7	47.5x60x95	72x41



Double layer 4WD 80mm Mecanum Wheel RC Robot Car Chassis...

US \$92.14 / piece US \$96.99 / piece Orders(9)



Moebius 80/97mm High Hardness Plastic Mecanum Wheel...

US \$11.03 / Set US \$11.99 / Set Orders(7)



PS2 Handle Remote Control Smart Mecanum Wheel Robot Car...

US \$39.99 / Set Orders(10)

Lidar

- 관련 링크
 - https://www.youtube.com/watch?v=WkW55b-WQx4
 - STM32F429 보드로 바꾸시는게 좋을 것 같아요
 - https://www.amazon.com/Neato-LIDAR-Laser-distance-sensor/dp/B00QSUJPSY
 - 근데 Neato XV-11 모델은 32달러 정도 하구요
 - STM32F4보드랑 쓰는 것 같아요
 - https://github.com/janblumenkamp/jufo2015_slam
 - 이분은 저희 보드랑 동일한 STM32F4-Discovery보드로 SLAM 구현 하신것같은데
- 정리
 - 만약 라이다 생각하면
 - Neato XV-11 모델 (32달러 대략 5만원)
 - STM32F429 보드 (대략 3.5만원)
 - STM32F429보드가 저희 STM32F407-Discovery랑 비슷하고 살짝 좋은거라서 하던대로 프로그래밍 하면 될것 같고, 납땜 하루 깔끔하게 투자하고 바꾸는 것도 괜찮을 것 같습니다.
 - https://blog.tkjelectronics.dk/2014/08/handheld-xv-11-lidar-with-stm32f429-and-matlab/
 - 이 블로그에서 Neato XV-11모델과 STM32F429 보드 연동 잘 나와있어서요