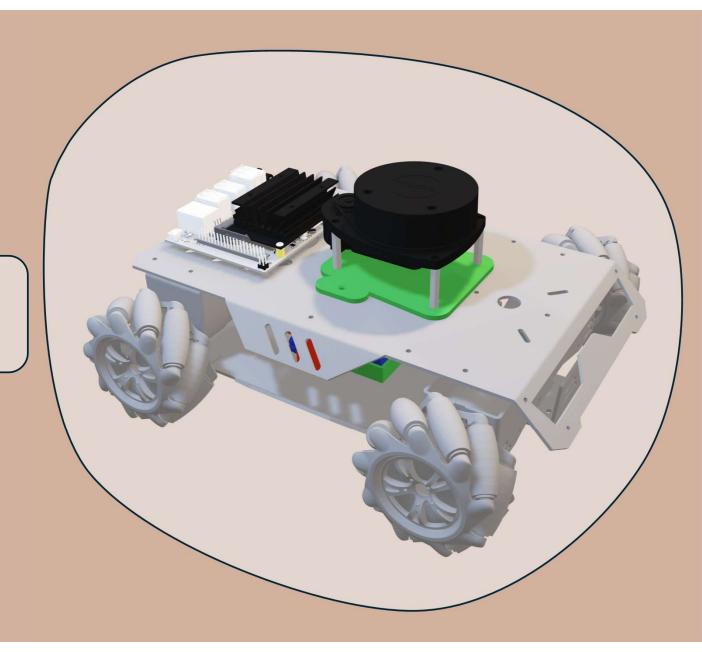
Mabop



Mabop

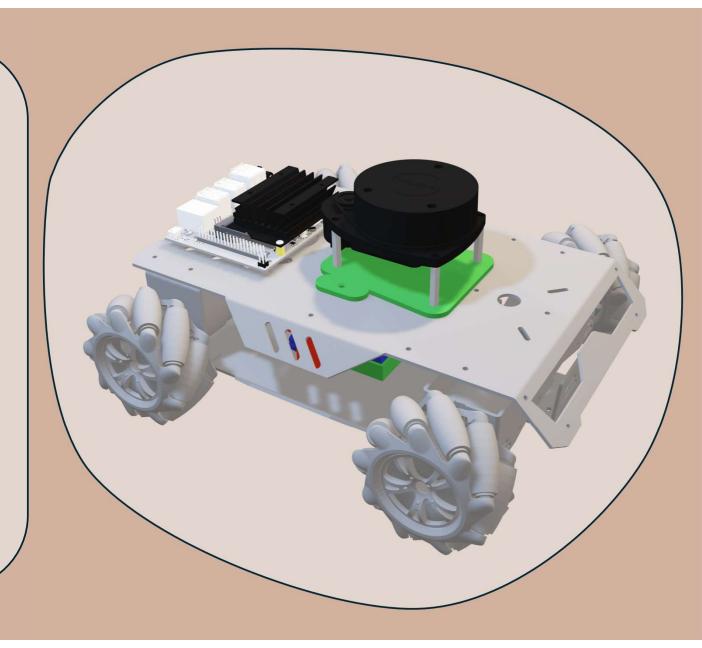
Le robot cartographe d'intérieur.

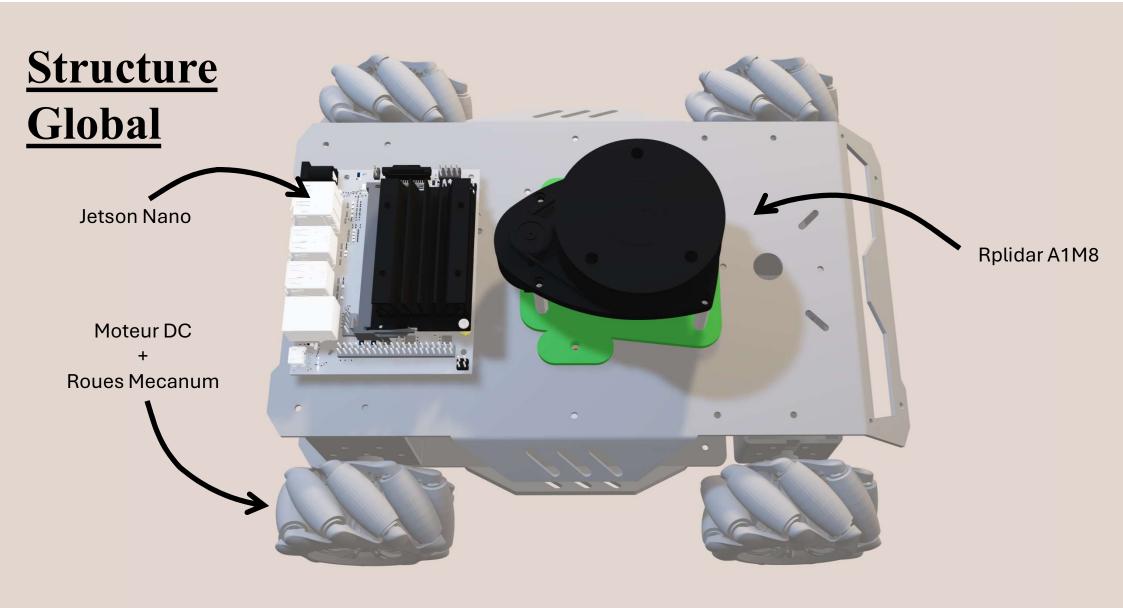
Objectifs:

- Cartographier en 2D
- Déplacement Omnidirectionnel
- Mode autonome
- Mode Manuel

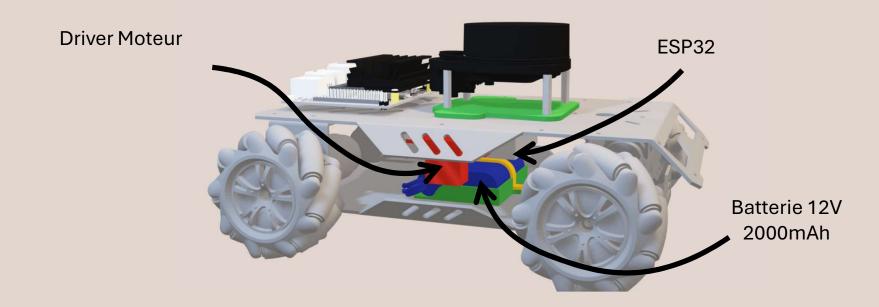
Applications:

- Cartographie d'entrepôt
- Repérage d'obstacle





Structure Global

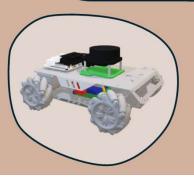


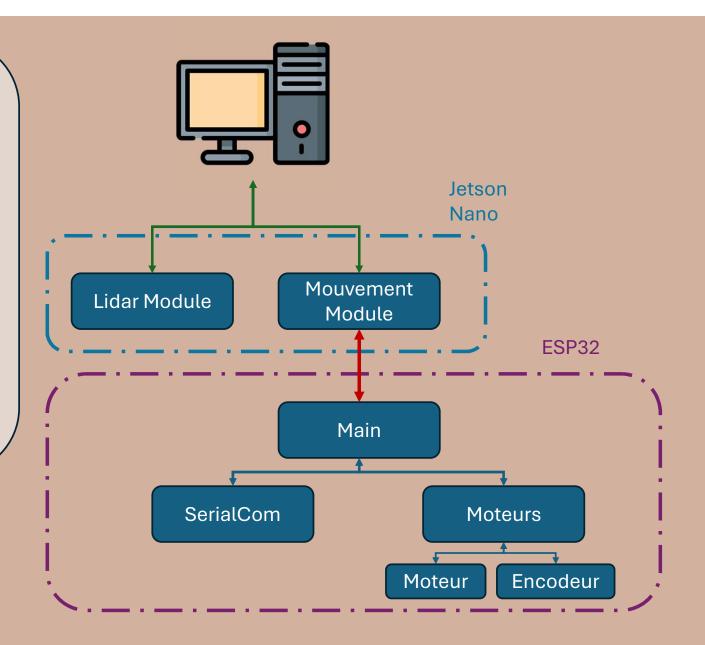
Déplacement

Architecture Code

Connection ssh

Communication Série

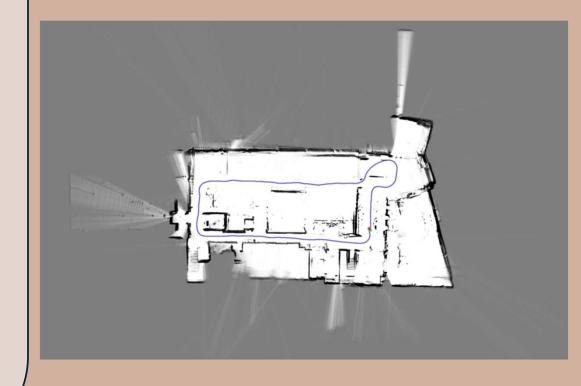


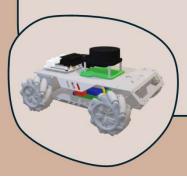


Système de Cartographie

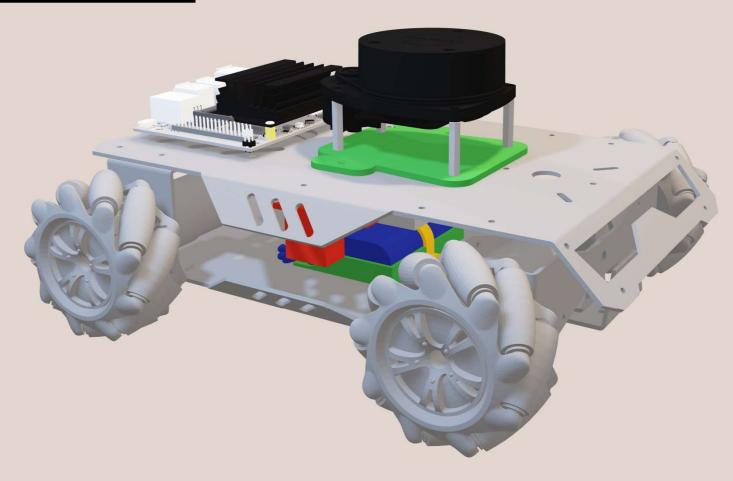
Algorithme SLAM (Simultaneous Localisation and mapping)

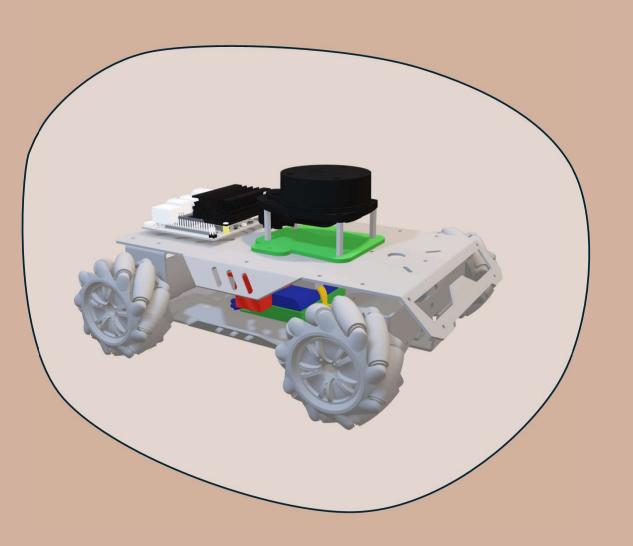
- Génère une carte avec la trajectoire du robot
- Sans odométrie
- Drift





Démonstration:





Conclusion

- Prototype
- Autonomie
- Fiabilisation des connections