

2024-2025

Twistopher

Design Report

- Electrical
- Mechanical
 - Swerve Drive
- Software
 - Feelers
- General

Electrical

Mechanical

Swerve Drive

TODO: how we actually designed it or something, links to CAD models, the giant discord thread, etc.

Random links I had bookmarked in a folder called "Swerve SCR"

- <https://cad.onshape.com/documents/cb4d3ed5e350c0c54fee5325/w/4791eeb2373db9f47ced18a5/e/3c9d88b6298389a3eedf4d4d>
- <https://www.mcmaster.com/products/brackets/brackets-1~/corner-brackets-5/>
- <https://www.mcmaster.com/products/brackets/brackets-1~/corner-reinforcing-brackets/>
- <https://www.andymark.com/products/right-triangle-bracket?via=Z2lkOi8vYW5keW1hcmsvV29ya2FyZWZWE6OkNhdGFsb2c6OkNhdGVnb3J5LzVhZjhhOVRmYmM2ZjZkNWUzNmYyMzU0Zg>
- <https://www.andymark.com/products/steel-right-angle-bracket?via=Z2lkOi8vYW5keW1hcmsvV29ya2FyZWZWE6OkNhdGFsb2c6OkNhdGVnb3J5LzVhZjhhOVRmYmM2ZjZkNWUzNmYyMzU0Zg>
- <https://www.revrobotics.com/RT25-Pulleys/>
- <https://www.swervedrivespecialties.com/collections/kits/products/mk4-swerve-module>
- https://drive.google.com/file/d/1AN1pVYBGM0WO-eisEzMd7OFO3_NO5MPg/view
- <https://cad.onshape.com/documents/cb4d3ed5e350c0c54fee5325/w/4791eeb2373db9f47ced18a5/e/3c9d88b6298389a3eedf4d4d>
- <https://www.mcmaster.com/products/metals/aluminum~/multipurpose-6061-aluminum-sheets-and-bars-7/>
- <https://www.mcmaster.com/products/turntables/>
- <https://www.mcmaster.com/products/turntables/turntables~/round-turntables-7/>
- <https://www.mcmaster.com/products/turntables/turntables~/square-turntables-7/>
- <https://app.sendcutsend.com/customer#/quote?action=register>
- <https://www.andymark.com/categories/pulleys>
- <https://www.andymark.com/products/42-tooth-5-mm-htd-15-mm-wide-bearing-bore-plastic-pulley>
- <https://www.revrobotics.com/>
- <https://www.revrobotics.com/duo/motion/gears-chain-belts/?page=2>
- <https://wcproducts.com/products/htd-timing-pulleys>
- <https://wcproducts.com/products/gt2-timing-pulleys-belts>
- <https://www.vexrobotics.com/htdversapulley.html#description>
- <https://www.zotero.org/storage?id=storage>

Software

Software

Feelers

Feelers White Paper

General