

CAD Class 2018

Day 1 (1 hour)

Introduce ourselves, explain significance of CAD, roll call

- CAD is for design that is sharable to teammates, essential to collaboration on projects
- Important for Engineering Notebook because it shows design process

Teach students how to open Parts File

Teach students how to make chassis

- Chassis is 2x4x1" with two .24" holes for axles
- Show how to make chassis with one sketch and one extrusion
- Save to computer as "CAD Car Chassis"

Teach students how to make axles

- Axle is 4" with .236" diameter
- Show how to make axle with one sketch and one extrusion
- Save to computer as "CAD Car Axle"

Teach students how to email parts files to self to save

- Compose email named "CAD Car Parts"
- Search for saved parts in computer and upload to email

IF THERE IS EXTRA TIME, complete *Teach students where and how to download Tetrix wheel and open file*

Day 2 (1 hour)

Teach students how to open Assembly file

Teach students where and how to download Tetrix wheel and open file

- <https://www.tetrixrobotics.com/TETRIX-Wheels>

Teach students how to open parts files into assembly from email

- Remember to search for "CAD Car Parts"

Teach students how to center axle and offset evenly from edges and place wheels flush on axles

Teach students how to save assembly and email to us

- Delete afterwards