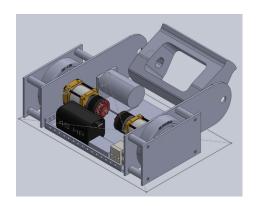
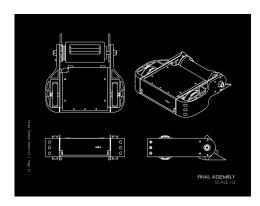
ALEX CARLSON

MECHANICAL ENGINEERING AT THE UNIVERSITY OF TEXAS AT AUSTIN



Mechanical Design Lead, Texas Combat Robotics







What?

- Designed and manufactured a 15lb combat robot to compete at the first ever SXSW Battle Bots Metal Mayhem event
- Completed the design cycle on a tight 5 week timeline from project inception to competition day

How?

- Used Solidworks modeling and assembly management skills to create parts and integrate COTS components
- Utilized **DFM** and engineering fundamentals to create a robust and repairable robot
- Manufactured parts with CNC milling, sheet metal bending, and 3D printing

Results

- Battled tough competition to place
 2nd in our group against experienced combat robotics teams
- Documented the design process in an engineering binder





Left: Engineering binder page documenting timeline Above: Texas Combat Robotics team photo after the competition