

SYSTEMS ENGINEERING RESEARCH CENTER

Multi-Domain Vehicle Remote Earth Sea Systems Technologies (R.E.S.S.T.) Sponsored by: Systems Engineering Research Center, **Stevens Institute of Technology**

Project Overview:

Team Remote Earth Sea System Technologies has been tasked with developing a remotely controlled multi domain amphibious vehicle (MDV) that will transport military special operators across sea, surf, and land terrains. The team designed a full scale and rc scale vehicle with advanced three position extendable suspension and traction control systems to successfully navigate the transition between sea and land.

Meet The Team:









Bryan Maldonado - ECE











Alexis Chavez - ECE



Ramses Montes - ME



Shane Agena - ME

Acknowledgements:

The R.E.S.S.T. team thanks:

Dr. Scott Shaffar - SDSU Professor Barry Dorr - SDSU Mr. William Shepherd - Systems Engineering Research Center, Stevens Institute of New Jersey

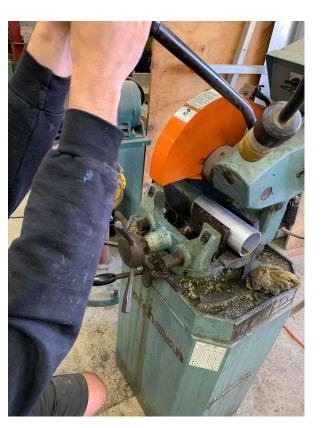
Manufacturing:



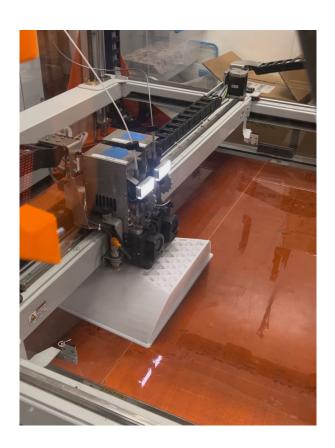
<u>CNC Mill</u>: Used to cut and notch square and round aluminum tubing. Used to round off edges of tubing and make holes in tubing.



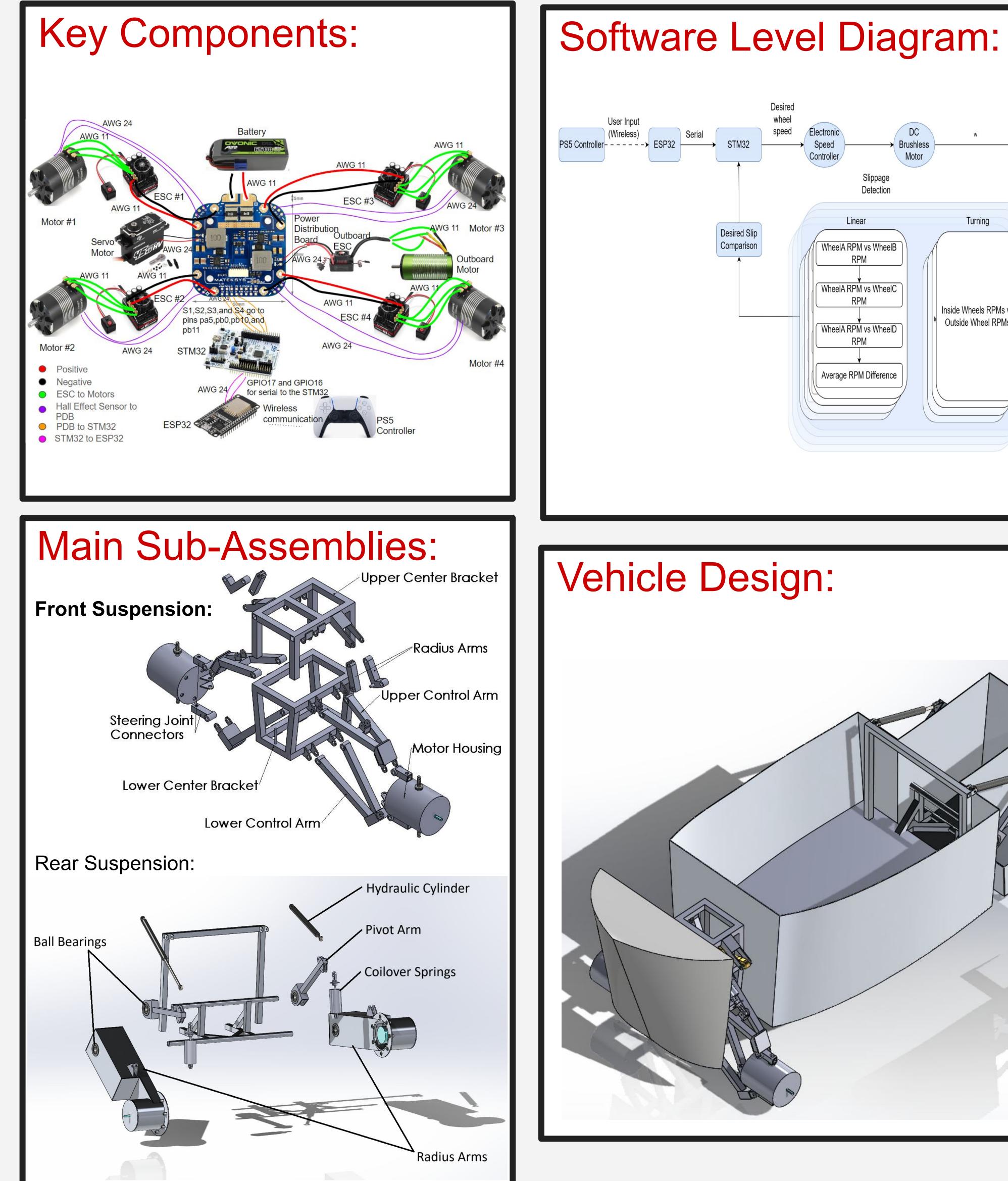
<u>Waterjet</u>: Used to cut out all sheet metal parts, tabs, and gussets.



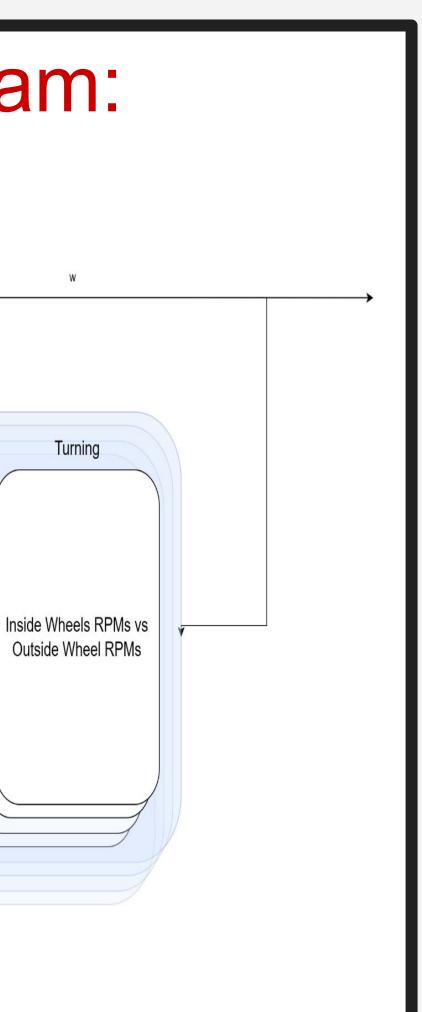
Cold Cut Saw: Used to cut square and round tube. Used to make angle cuts and angled notches in tubes.

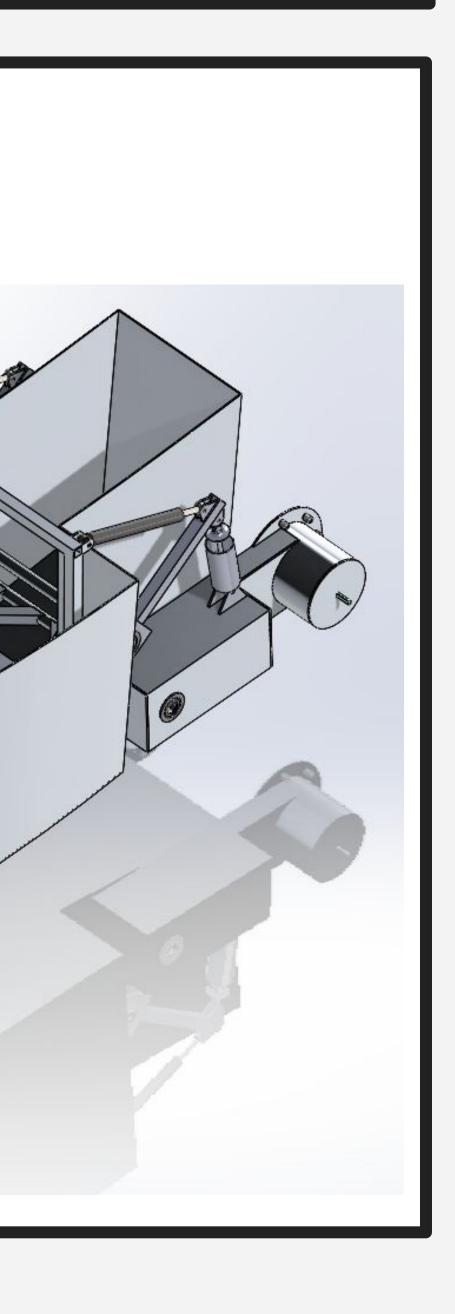


Big Rep 3D Printer: Used to print out all 3D printed parts.









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