TTT Logo

Daily Log
DAY 1

This week at A&M We are building Robots! On day 1, I was just looking around to see what's happening with my team members choosing jobs in the mechanical, electrical, and software side of the robot.

Electric engineers: After a few safety lessons we set up our robot parts and start working. The first part of our job is making the sled, we started it as a flat plastic rectangle. After setting up and grabbing our sled we start with the fun part, first we drill holes in the sled (for later) then, using the soldering iron, we put in some nails at the end of the sled .

Mechanics: Again, after quick safety lessons we gather the needed supplies and get to work, first we measure and drill some holes into some metal rods. After finishing with the rods we move on to building some of the frame. We grab some pipes and cut them to fit the needed size for the frame.

Software engineers: First we have a few math lessons to help us understand how the robot will think and move. After a few minutes, we start coding. We are a tad bit closer to allowing the robot to come to life!

Communicators: first few minutes we take a short lesson over how to create a professional website, then we log onto the computers to start with our logo. We open the computers, but there is a technical difficulty, the wifi was having problems, so instead of starting on logo we go explore the other engineers process.

DAY 2

Before we all split into our separate groups we have a short mini-lesson over power/voltage.

Electric Engineer: As a start to our day we grab a flex tube and start fluffing the iron with it. After finishing with that we took the soldering pen and melted the metal to help it stick to the wire and battery. There was a minor difficulty, but we overcame it and also got to learn how to desolder! We also finished with the motherboard!

Mechanical: First two hours we were working on the exoskeleton/ frame of the robot. After quickly finishing with that we start making the cradle and attaching the legs and wheels.

Software: Learning some more about codes! Today we got to explore individually about the software, we are so close to an intelligent robot!

Communication: Since there is only 4 tablets the communications team had to separate. Three went to help out with the mechanics and the electrical engineers, the other three worked on their logo, twitter account, and websites. After everyone finished with the technology we started taking pictures and videos.

DAY 3

Before splitting into groups we had two mini lessons, one over switches/H bridge the other over data collection.

Electric Engineer: Today was the last day of working as an individual. We finished the sled, connected all the wires to the software, and connected the battery packs.

Mechanics: A pretty simple day: finished up with the legs, frame, and tightening the wheels.

Software/ communication: Today we had the students act as teachers. The communications team joined the software team to learn some codes. Today we got to explore as software engineers how to do some cool stuff with the three lights on the launch pad.

DAY 4

We are very ahead of schedule, so we were asked to measure the distance it can go without the battery burning. We had another mini lesson about battery capacity, then we separated into groups.