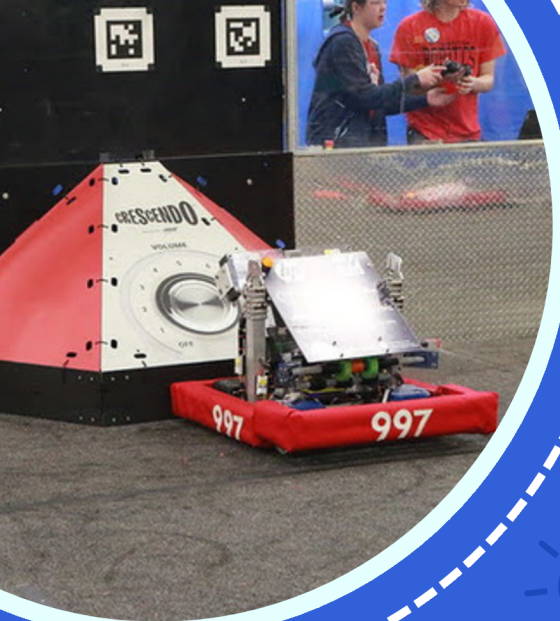




# SPARTAN ROBOTICS

## *High School Robotics Team*



## SPARTAN ROBOTICS

### ● Meeting, Learning, Growing

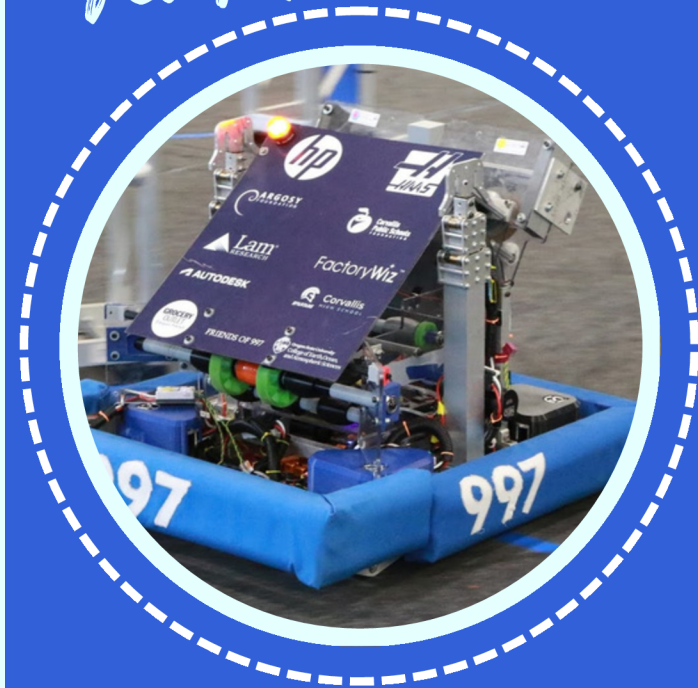
The Spartan Robotics Team provides many opportunities in multiple aspects of robotics. Students who are interested in the building, software and design of a robot, or even the business aspects behind the scenes, we have it all! The team is open to High Schoolers at our school or in the community who want to join! We meet every Tuesday and Thursday in room T16 at Corvallis High School.

## ABOUT OUR TEAM

The Spartan Robotics Team aims to inspire the next generation of science and technology leaders. The students are engaged in programs that build science, engineering and technology skills that inspire innovation as well as improving their self-confidence, communication and leadership capabilities.

**More information**  
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# DESIGN AND MANUFACTURING

## Brings ideas to life!

- Plans out design with team at kick-off
- Makes drawings to visualize the robot
- Designs the robot in CAD based on the team's specifications
- Manufactures parts from design using mills, lathes, and other tools
- Assembles robot
- Once done, they send off to the software and electrical sub-teams



Here is a picture of our design and mechanical team working together in our machine shop. By working together, they are able to effectively communicate to ensure the parts are being made well. This is a great opportunity to gain skills outside of each subteam.

# SOFTWARE AND ELECTRICAL

## Connects and codes!

- Wires the robot
- Ensures efficiently flowing power
- Software creates code that allows the robot to run smoothly
- Makes sure the robot works in both when autonomous and manual control scenarios



The electrical team wires the robot. Although this seems simple, possibilities for failure in competition are taken into account, alongside accessibility to electrical components. Software confirms their coding will agree with the wiring of the robot, so communication is crucial here too!

# BATMAN

## Business and Marketing

- Plans outreach events
- Organizes team activities
- Creates team spirit
- Manages marketing
- Holds fundraising events
- Finds and keeps sponsors
- Applies for grants

*The backbone of our team!*

More info:

