

Wilson Talent Center Virtual Visit – Engineering Technologies

[Paul Guetschow] Welcome to the Engineering Technologies classroom here at the Wilson Talent Center. I usually like to start for students that are interested in this class is what kind of students like this class and those are students that typically tell me they're interested in how things work. They've had some experience with taking something apart in their life, whether that was a toy or video game, something like that, and it interests them. Those students usually really enjoy this class. Students that like Legos when they were younger, maybe they like him now. They just seem to really thrive in this class. We do a bunch of different things in this class, many different experiences from learning a Computer Aided Design software called SolidWorks. Doing some electronic soldering, some 3D printing, some mechanical items where you're taking apart an engine and putting it back together. Working on motors and gears and sprockets, doing some machining. All of our students will use a lathe and a mill to Actually make metal parts, programming robots, computer programming using Arduino. So this class you don't become an expert in any one thing, but you get hands-on experience doing a bunch of different things. There are so many careers that can come out of this class. Continuing education as engineers working on robots technology just fixing different pieces of equipment. Just a lot of different opportunities. So if you're here and you're willing to try new things and you're just excited about learning every day, those students they just really thrive in this class. Now I want to pass you over to Noel. She's one of the students I have in this class. She's a junior so this is a one year class and Noelle is a junior and she's just going to show you some of the things we've worked on so far this year. [Noel Simmons] Hi, I'm Noel Simmons. I'm a junior and this is my first year in this class. I go to Dansville High School and I decided to try this class to see if I wanted to be an engineer or not. So in this lab you get to learn how to program robots. Plug in wires and everything then currently right now one of our students is 3D printing a raven. You can 3D print whatever you want and you get to learn how to use the software to use it. This class lets you experience something of everything is not just one thing like welding, or just working on cars. Here you get to do Pneumatic systems, electrical systems, soldering, mechanical drive systems. You even get to take apart an engine. And there's just a lot to do out here. Over here, I was working on a mechanical drive system. I'm learning how to do couplings. I enjoyed taking stuff apart when I was younger, but I haven't done anything nearly this complicated, so it was a little intimidating, but don't let that fool you. It's all pretty easy and everyone here is really nice to help you. This is the collaboration space where we do more of our dangerous stuff, and safety glasses are used in here. This is where a lot of our metalworking is. You bend metal and shape it in here, you roll it. We even have some welding to do. Over there is our lathe. Where you carve metal basically and we have a mill which is another version of carving metal. This is a really fun program and we'd all be excited to have you. I hope you check it out.

END OF VIDEO