

Final Day - Mid-Plains Industries

My 10th, and final day of the Return to Industry experience started with me working with Jay Mary in the morning on stainless steel set-ups on the CNC Haas mill. We did a set-up that cut angles on the pieces we drilled holes through yesterday. We went to the BOBCAD-CAM software, picked the tools and paths we were going to use and away we went. During the short few hours I was with him, he had several requests from coworkers for him to use a manual mill to drill and bore holes, get a bolt with an Easy-out, and to fix a couple of dies for a press. I don't know if it was an interesting day for Jay, but it was for me. He was problem solving from the time I walked in the door.

Taylor spent a few hours with me taking me around the facility and he showed me one of the jigs they were building to hold a semi bumper so the ergonomics would be easier for the welding operator. I commented on some of the awesome welds of this jig to one of welders. You could tell the pride he took in his work. I walked past a Cincinnati Break Press and Taylor took time out and asked me if I was interested in any bending. I said, "Absolutely!" One of the requirements of our Linkages class at CHS is to make something that is bent, shaped or formed. This press took a CAD drawing or DXF file, loaded it into the system and showed where everything needed to be bent. We put in radius', operation sequences and away we went. Taylor checked the parts and said they were .040 off from where they needed to be. We told the computer to go .020 on each side and everything was set. We built another piece and it was perfect. I think if the students at CHS had seen this machine and how easy it is to operate they would take it out on me because we do a lot of complicated math to do this same procedure that the computer did so easily. I also spent time watching Taylor surface grind on a manual grinder. We have three of these at CHS. I will definitely show my students how these grinders are being used in industry.

We spent a little time with Kristi Niemann. She wanted to take a picture for their Facebook page. We started talking about the OSHA cards our students earned last year and the importance of them. She belongs to the Columbus Safety and Health Council that meets monthly with a majority of the industry safety leaders in town. My plan is to get on their agenda in September or October to talk about the next step for our students at CHS in getting their 10 hour safety card and the importance of that card when he or she applies for an industry job here in Columbus. I am hoping to brainstorm with this committee ways to impress on students and businesses the importance of this card.

I spent a little time watching Mike Anderson run a Romer Absolute Arm. It worked kind of like a coordinate measure machine, but instead of picking up data points with a probe, it did it with a laser. It will draw the parts and check the parts for accuracy. It was pretty amazing how the machine worked vs the time and effort the old way takes.

I wrapped up the day by spending some time with Shawn and Jay and told them I had a great experience. I left my phone number and they told me that if I needed any help or materials I was to give them a call.



Mike using Romer Absolute Arm



Jay Mary running a manual lathe.



Taylor showing me how the Cincinnati Press Brake Works



manual mill.
Solid Model of the process
going through the press brake.

Taylor surface grinding on a