## Projects Completed by 2018 Summer Engineering Intern: Dustin Gurley



Continuous Improvement and Technical Writing: Our Continuous Improvement Manager reviewed CI principles and writing technical documents with Dustin. He started the documentation process for the coil coating system, as well helped apply 5S principles to a work cell in the production line.

**Robotic Arm:** Dustin evaluated an old robot to see if it was able to be repurposed. He created a plan to use the robotic arm to aid in deburring our skyve extrusions. However, when he evaluated the robot, he concluded that several parts were not functioning and helped us establish options for repairing or scrapping the machine.

**Unified Email Signatures:** Dustin established a way for everyone to have a unified Email signature. This is easy to set up for all current employees as well as existing employees. This involved creating a script to install the signature by clicking on a link located on our public folder.



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**Strategic Filter:** A Strategic filter was modified by Dustin to create a potential client analyzer with a variable lookup table. This will help guide the company in deciding which accounts to acquire and ensure the focus of the company.

**Data Analysis:** Dustin modified sales forecasting documents to simplify data collection and analysis. He utilized the macro function in excel to create a way to pull data from multiple spreadsheets and compile it in one table.

**Tube cutter:** Dustin was also able to help our Maintenance staff repair a tubing cutter that had been out of service for several weeks. This involved getting the computer to communicate with the machine controls.

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**Automation of Copper Serpentine Bender:** Dustin was able to repurpose Parker controls and servo motors to increase the accuracy of bends and repeatability by automating the length and the angle of the bends made by one of our manual serpentine benders. This project consisted of researching the capabilities of old controllers as well as wiring connections. The code had to be rewritten and the user interface redesigned to allow us to add a library of part programs as well as the ability to add new parts to be bent. A new tabletop with additional supports was created to eliminate harmful reactions with the copper tubing. The bender will be used to create a dedicated production line for our copper serpentines for a new line of ice machines.









**Eutectic Welder:** Dustin modified the programming on one of the eutectic welders to increase efficiency by allowing the welders to be activated independently of each other. This project consisted of researching the capabilities of old controllers as well as wiring connections. The code also had to be re-written.

